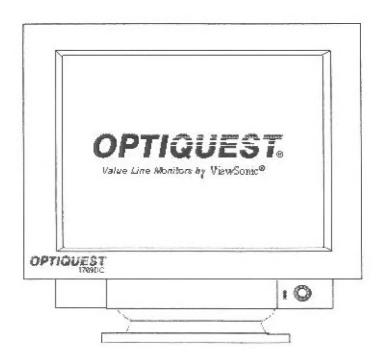
Service Manual

OPTIQUEST 1769DC

Model No. 1769DC-1

17" Digital Controlled Color Monitor Value Line Series



(Rev. 1 - July 1996)

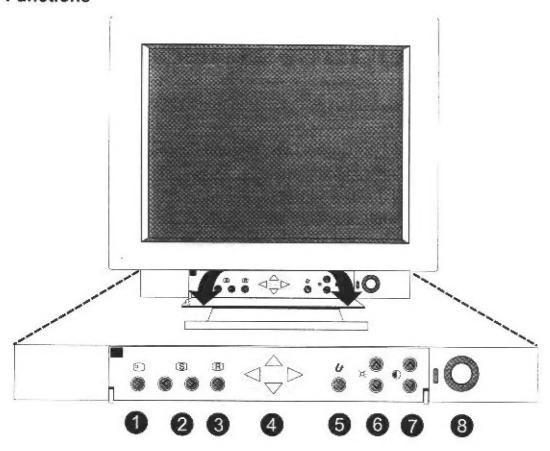
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Section 1.

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1.1. Monitor Control Locations & Functions



	KEY TO BUILT-IN	MONITOR CONTROL FUNCTIONS
0	OSD	Press to enter and exit the OSD menus.
0	Select buttons	Press to select the OSD option to change.
0	Recall	Press to recall the factory preset defaults.
0	Adjustment buttons	Use these to increase or decrease values when adjusting the OSD options.
0	Degauss	Press to degauss the monitor
3	Brightness	Press to increase or decrease the monitor's brightness
0	Contrast	Press to increase or decrease the monitor's contrast.
3	Power On / Off	Press to turn on or off the power to the monitor.

1.2. Product Overview

The monitor 1769DC-1 described in this service manual has the following features:

- □ 17 inch 0.27 or 0.28mm dot pitch conventional CRT
- □ 30-69kHz horizontal scanning
- □ Ten preset modes
- ☐ Universal segmented auto range power supply
- □ VESA/NUTEK/EPA compliant power management

1.3. CRT Characteristics

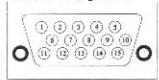
- ☐ Faceplate Type..... FS
- □ Orientation..... Landscape
- ☐ Phosphor Dot Pitch 0.27 or 0.28mm
- ☐ Electron Gun 29mm, Precision-In-Line
- ☐ Deflection Angle 90 degree diagonal
- □ Shadow Mask Invar
- ☐ Phosphor Persistence..... Medium Short
- ☐ Faceplate Properties..... ASN antistatic, antireflection
- □ Standard Light Transmission. 53.5% Typical

1.4. Power Specifications

- □ A/C Receptacle IEC320
- ☐ Power Supply Type Universal
- ☐ A/C Line Voltage Ranges . . . 88VAC 132VAC
 - 180VAC 264VAC
- ☐ A/C Line Frequency Ranges . 50Hz/60Hz ±3Hz
- ☐ Inrush Current 30A/132V or
 - 50A/264V (at cold start)
- □ Degauss Automatic and Manual

1.5. Video Input Signal Characteristics

- □ Video Type Analog
- ☐ Amplitude 700mV maximum
- □ Video Input Impedance 75 Ohms ±1%
- □ Video Connector Pin Assignments:



Pin	Signal	Pin	Signal	Pin	Signal
1	Red video	6	Red return	11	Monitor GND
2	Green video	7	Greenretum	12	SDA
3	Blue video	8	Blue return	13	H. sync.
4	Monitor GND	9	No pin	14	V. sync.
5	Return	10	Sync return	15	SCL

1.6. Sync Input Signal Characteristics

1.6.1. Separate Sync

- ☐ Sync Type TTL
- ☐ Amplitude 2.4V minimum (Logic High)

0.8V max. (Logic Low)

☐ Polarity..... Positive or Negative

1.7. Video Amplifier Performance

- □ 90% Rise and fall times. . . . 12ns (Measurement shall be made at CRT connector, with output swinging 30Vpp)
- ☐ Video generator rise/fall time 2ns maximum
- ☐ Scope and probe bandwidth . 350MHz minimum
- ☐ Probe capacitance 2.5pf
- □ Overshoot/Undershoot 15% max.

1.8. Environmental

1.8.1. Temperature / Humidity / Altitude

OPERATING

- □ Temperature..... 10°C to 35°C
- ☐ Relative Humidity . 0 to 90%, non-condensation
- ☐ Altitude 0 to 10,000 feet

NON-OPERATING

- □ Temperature.... -40°C to +65°C
- □ Relative Humidity . 0 to 95%, non-condensation
- ☐ Altitude 0 to 40,000 feet

1.8.2. Vibration Test

UNPACKED UNIT

	Frequency	Amplitude (mam)	Acceleration (G)
1	5 - 22Hz	0.25mm	-
2	22-500Hz	_	0.25G

Times/Cycle:

- ☐ Rise Time..... 10 Minutes
 - ☐ Fall Time 10 Minutes
 - □ Number of Sweeps I Cycle
 - □ Axis X.Y,Z
 - □ Total Times 60 Minutes

PACKAGED UNIT

	Frequency	Amplitude (m/m)	Acceleration (G)
1	5 - 50Hz	-	0.83
2	-	_	-
	□ Times/0	Cycle:	

- □ Rise Time...... 10 Minutes
- ☐ Fall Time 10 Minutes

_	1202		_		
	Number	of	Sweens	1	Cycle

□ Axis X,Y,Z

□ Total Times 60 Minutes

1.8.3. Drop Test

☐ Compliant with NSTA Project 1A guidelines

□ Drop Height 46cm

☐ Test Direction . . . 1 Corner, 3 Edges, 6 Faces

1.9. Preset Timing Modes

This display has 10 preset display modes configured during manufacture, given in the following table:

Model No.	HIKHZ	W(*Hiz	Pixel Rate
01	60.023	75.029	78.750
02	58.230	72.245	75.000
03	50.000	87.030	80.000
04	48.077	72.188	50.000
05	46.875	75.000	49.500
06	37.879	60.317	40.000
07	37.861	72.809	31.500
08	37.500	75.000	31.500
09	35.520	86.960	44.900
10	31.469	59.940	25.175

Section 2.

Disassembly Instructions

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2.1. Removing the Cabinet

- (A). Remove the four screws at the rear of the display.
- (B). Lift the cover vertically away from the monitor.



Figure 2-1 Removing the Cabinet

2.2. Internal Disassembly (Right Side)

The neck board is plugged onto the CRT neck and is enclosed in a metal shielding.

- (A). Disconnect the degaussing coil from the main board.
- (B) Removing the screw from the chassis rear.
- (C) Disconnect the ground wires from the metal casing of the neck board.
- (D) Remove the Lock Cap from the nylon ties.

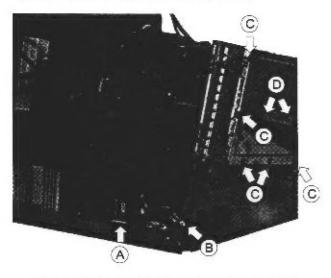


Figure 2-2 Internal Disassembly (Right Side)

2.3. Internal Disassembly (Left Side)

- (A) Remove the ground wires from the neck board casing. You may now remove the neck board from the CRT if required. The neck board is secured in place on the CRT neck with Sony bond. Use a flat head screwdriver to prise this away and then pull the neck board away from the CRT neck.
- (B) Undo the screw holding the ground wire to the metal frame.
- (C) Disconnect the ribbon cable from the logic board and the cable from the CRT connected to the rear side of the logic board.
- (D) Remove the CRT anode cap.
- (E) Cut the cable tie indicated to free the cables.
- (F) Disconnect the 4-pin connector on the CRT yoke cable. You may now remove the logic board if required.
- (G) Remove the Neck PCB from the CRT.

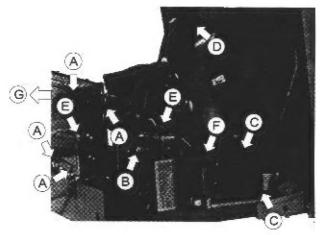


Figure 2-3 Internal Disassembly (Left Side)

2.4. Removing the Main Board

- (A) Place the display flat on its face and remove the nylon rivets holding the main board in place on the frame.
- (B) Hold the from bezel with one hand and withdraw the main board vertically from the CRT assembly. It may be necessary to pull the plastic frame on either side outwards slightly to disengage the main board from the plastic frame.

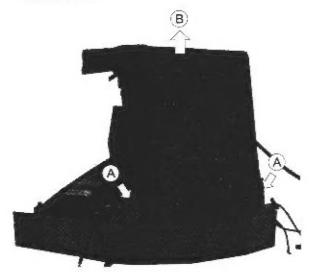


Figure 2-4 Removing the Main PCB

2.5. Removing the Control Panel

- (A) Remove the plastic rivets from the bottom of the control panel.
- (B) Pull the control panel sub-assembly away from the monitor bezel.

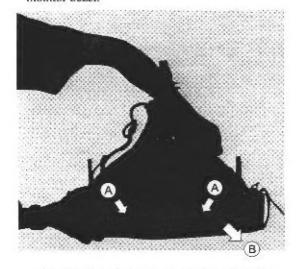


Figure 2-5 Removing the Control Panel

2.6. Removing the Control PCB

- (A) Remove the two screws from the PCB.
- (B) Remove the control PCB from the control panel.

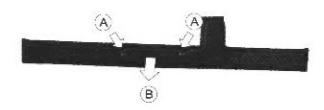


Figure 2-6 Removing the Control PCB

2.7. Removing the CRT from the Front Bezel

- (A) Undo the four screws at each corner of the CRT.
- (B) The CRT can now be separated from the front bezel and the CRT grounding harness and degaussing coil also removed.

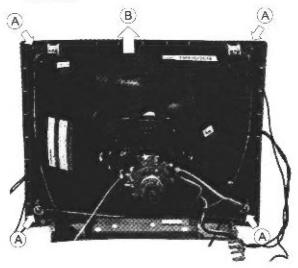


Figure 2-7 Removing the CRT from the Front Bezel

according to the frequency, so a compensation value is provided by D12 in order to reduce the difference in total power for different frequencies. In addition, because the AC input ranges from 85VAC to 270VAC, this causes the value of the direct current on the DC bus to vary, affecting the rise rate of IP, the oscillator and the duty cycle, and causing the test value obtained at Pin 3 of IC2 to vary. To resolve this, a compensation value is provided by R39 and R41 which reduces the difference resulting from the different input voltages.

3.1.2. DC to DC Circuit

Another special characteristic of this power supply is the addition of a DC to DC circuit to the output. In order to support the monitor at different frequencies, a similar high voltage is required (26kV). To accommodate this requirement, a buck loop has been added to the 200V output. The synchronization signal is got from the monitor H.D. area, and after getting synchronization through QP1 trigger ICP2, a high voltage feedback signal (FB), is input to QP2 to obtain the DC level. A comparison is carried out between Pin 5 of ICP2 and ICP3 to establish the duty cycle of transistor QP3 (IRF840) so that even under different frequencies, a similar high voltage value is still obtained.

3.2. The Deflection Circuit

Please refer to the block diagram of the deflection circuit and video circuit and Logic circuit.

3.2.1. IC304 TDA9102C

- IC304 TDA9102C is a horizontal and vertical processor. The horizontal section consists of a TTL interface, two comparators and an oscillator. The vertical section consists of a TTL input interface and an oscillator. This IC includes a voltage stabilizer to provide about 8V.
- When sync is input as a TTL level, this causes a negative edge trigger. Pin 4 serves as the H-sync input point and Pin 14 as the V-sync input point.
- Pins 6 and 7 are the collector (C) and emitter
 (E) of the IC's internal transistor. The output
 from Pin 7 is not enough to drive T301 as the
 output current of IC304 is small, so Q345 and
 Q310 are used to amplify the current to drive
 T301.
- 4. Pins 1 and 2 provide the external control of the horizontal oscillator free run. Free run is controlled by changing the resistance value of R383 R379 R403 and C392 to obtain different DC voltage levels. By adding an external F/V on Pin 1, the difference between a variety of input frequencies and free run is maintained at a similar level. In this way, when different

- timing modes are input, if the ratio between the active display and total display is similar, then the position of the phase will also be similar.
- Pins 12 and 13 provide the external control of the vertical oscillator free run. Free run is controlled by changing the resistance value of R388 to obtain different DC voltage levels. By adding an external F/V on Pin 12, the difference between a variety of input frequencies and free run is maintained as similar. The vertical free run trigger synchronization point will affect the amplitude of Pin 15 V-output. Since the difference between each input frequency and free run is similar, this means the synchronization trigger level is also similar, making the V-OUTPUT at Pin 15 also similar. As long as the ratio of the width of active display to total display is similar, then V-SIZE will be similar. For example, the ratios of 35kHz 800x600 and 37kHz 800x600 are approximately the same so they only use one VR (please refer also to the explanation of vertical deflection).
- The Horizontal phase of different modes can be individually adjusted by changing the VDC level at Pin 10.
- The vertical size of different modes can be individually adjusted by changing the VDC level at Pin 16.
- The vertical linearity can be changed by altering the VDC level at Pin 17.

3.2.2. Vertical Deflection Circuit

- IC201 TDA8172 consists of a flyback generator, voltage stabilizer, drive circuit and vertical output amplifier.
- 2. The vertical oscillator circuit
 - (a) The frequency and phase of the vertical oscillator circuit is generated by the vertical synchronization signal.
 - (b) The synchronization signal is output from Pin 14 of IC304 TDA9102C and, after being processed by the synchronization circuit, is sent to the vertical synchronization oscillator circuit to trigger the vertical oscillator and synchronize the oscillator frequency with the external synchronization signal. The frequency of its internal free oscillation is set by the time constant of R387 and C384. The F/V voltage output from IC307 Pin 15 is used to maintain the difference between the free oscillation frequency and external synchronization signal frequency at a similar level and make the sawtooth wave amplitude from Pin 15 of IC304 the same.

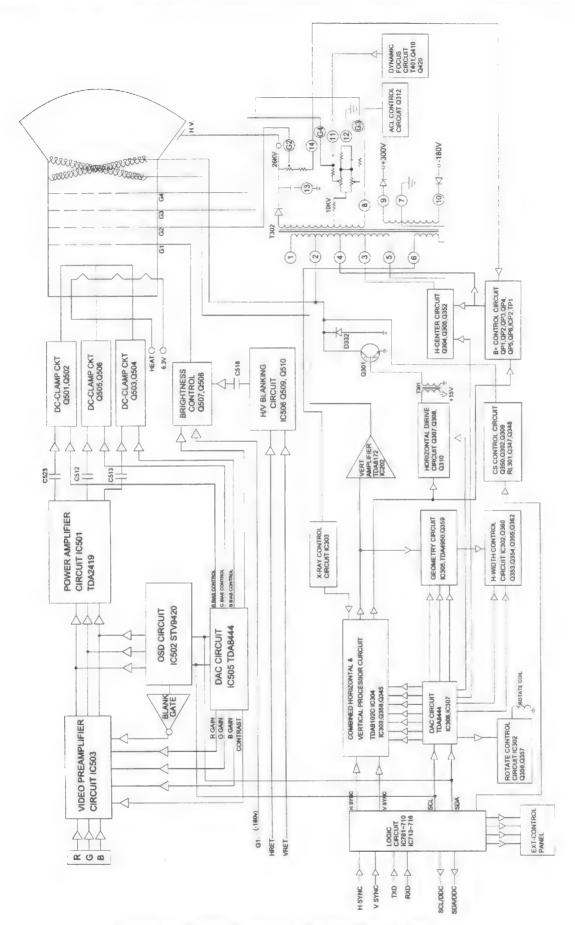


Figure 3-2 Video, Logic and Deflection Block Diagram

3. Vertical Size Control

The pulse voltage output by the oscillator is sent to the sawtooth wave generator. The size and amplitude of the voltage of the sawtooth wave generation can be changed by DC value which output from Pin10,11 of IC306 and the vertical size can thus be controlled. This sawtooth wave voltage passes through a buffer and is output from Pin 15 of IC304 to Pin 1 of IC202 TDA8172 of the vertical drive circuit.

4. Vertical Drive Circuit

(a) It is not sufficient to rely solely on the oscillator circuit output to ensure the stability of the vertical output, so a first or second level amplifier circuit must be inserted between the oscillator circuit and the output. This circuit is called the drive amplifier and in addition to amplifying the sawtooth wave also corrects the vertical linearity.

After adding the drive circuit, because the level of amplification can be considerable, enough negative feedback can be added to correct vertical linearity and increase the stability of the circuit.

(b) If the current of the sawtooth wave flowing through the deflection yoke is distorted, then the top and bottom portions of the display will be expanded or compressed, resulting in poor linearity. In order to solve this problem, correction of the linearity of the sawtooth wave can be carried out before the drive level.

5. IC201 TDA8172 Vertical Drive Circuit

- (a) IC202 uses a double power source, so it can be viewed as an OCL drive amplification circuit.
- (b) Pin 15 of IC304 outputs a sawtooth wave which is input from Pin 1 of IC202 and after being amplified is output from Pin 5 of IC202 to the vertical deflection yoke. R202 through R204 negative feedback to Pin 1 to increase the stability of the circuit.
- (c) Pin 3 of C202 is connected to Pin 6 of D212 to make a compensatory circuit in order to reduce power consumption during flyback operations.

6. Vertical Centering Adjustment

Since IC202 functions as an OCL circuit, VDC is output from Pin 7 of IC201, so the central current can be changed to shift the on-screen display up or down to prevent voltage fluctuation. After adjusting the power stabilizer at Pin 19 of IC304 TDA9102C (about 8V) with R207, R208, R212 and R211, this is input to Pin 7 of IC202 to change the value of the vertical center.

3.2.3. Pincushion Correction Circuit

 If the width of the border in the center of the screen is insufficient, the waveform shown in Figure 3-3 below, can be used to add to horizontal deflection B+ in order to change the deflection of the horizontal deflection circuit.

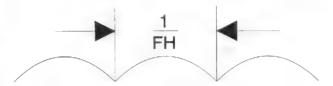
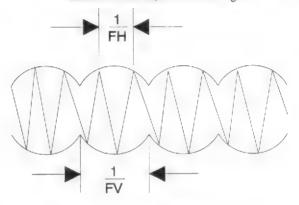


Figure 3-3 Voltage Correction Wave

This waveform is the parabola obtained after regulation of the vertical period, and is created to perform amplitude modulation on the horizontal deflection current, as shown in Figure 3-4



FH: Horizontal Frequency FV: Vertical Frequency

Figure 3-4 Current Correction Wave

2. The sawtooth wave is output from Pin 15 of IC304 and through IC305 TDA4950 for integration regulation into a parabola. It is output from Pin 5 of IC305 and passed through C354 and R360 and input to Pin 2 of IC302. It is then output from Pin 1 of IC302 and after being sent to Q353's collector output, is added to horizontal B+ to provide pincushion distortion correction.

3.2.4. IC305 TDA4950 Circuit Operation

- TDA4950 consists of a comparator, a wave regulator and a current limiter.
- The sawtooth wave from Pin 15 of IC304
 passes through R406 and R407, coupled to Pin
 2 input, with Pin 3 being a fixed reference
 current, and after VDC conversion in R393
 achieves KEYSTONE compensation.
- The H-sync signal (output from Pin 6 of T302) is input, passes through R397 D374 and C393, generates a sawtooth wave which is input to Pin8 of IC305. It can output a DC value(0~5V)

from Pin12 of IC307, passes through R394 Q359 coupled to Pin8 of IC305, then can change the DC level of the sawtooth wave, and after passing through Pin 1 and Pin 2 of the wave regulator, a fixed parabola wave is generated at Pin 7 (in order to adjust the waveform at Pin 7, the VDC of the sawtooth wave at Pin 8 must be the same as the VDC of Pin 7. Please refer to Figure 3-5.

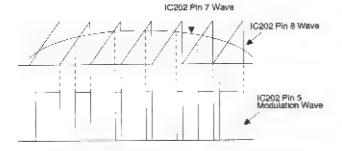


Figure 3-5 IC305 Pln 7 and Pin 8 Waveform

After the waveform has been modified, although the horizontal frequency is not the same, the waveform output at Pin 5 is not the same, and for this reason can be used to correct pincushion distortion. The waveform output from Pin 5 of IC305 is a square wave, and passes through C360 and C354 and is coupled to Pin 2 of IC302.

3.2.5. Structure of Horizontal Deflection Circuit

The function of the horizontal deflection circuit is to cause left/right scanning of the electron beam using the sawtooth wave current flowing through the horizontal deflection yoke, and is made up of the horizontal oscillator circuit, horizontal drive circuit, horizontal output circuit, synchronous AFC circuit and high voltage generator circuit.

1. Horizontal Drive Amplifier

In order to rapidly saturate the output transistor (ON) or cut it off (OFF), a sufficient basic current must be provided. Because of this, an amplifier circuit is added between the oscillator circuit and the output circuit to amplify the pulse voltage. At the same time, after the waveform has been regulated, by adding this circuit to the output circuit, this amplification circuit functions as a drive amplifier.

 IC TDA9102 consists of a vertical sawtooth wave generator, horizontal sawtooth wave generator, horizontal oscillator circuit, vertical oscillator circuit, AFC circuit, phase regulator circuit, X-RAY circuit and drive amplification circuit. This IC includes the vertical and horizontal circuits combined in one package. When the horizontal signal is sent to Pin 8 of the AFC circuit and receives a pulse back to Pin 4 from the horizontal output, the difference between these two phases is used to calculate the Automatic Frequency Control (AFC) voltage, and control the frequency of the horizontal oscillator circuit at Pin 8 through R398 R303 C322 and ZD308. The horizontal frequency is determined by the time constant of R384 R385 and C382, and is output from pin 7, coupled through T301, and supplies the base current for the horizontal output transistor Q301. This is the basic procedure of horizontal deflection.

3. Horizontal Output Circuit

The horizontal output circuit uses the switch operation of a transistor and a damping diode, and provides a sawtooth wave current to the deflection yoke. The horizontal deflection yoke is made up of the L value on the coil and resistance r inside the coil connected in series. Its resistance is extremely small, and the time constant (L/r) is extremely large. Because of this the voltage at the two terminals of the coil cause rapid variation in the current flowing in the coil still will slowly vary, creating a sawtooth current. The basic circuit and equivalent circuit are shown in Figures 3-6 and 3-7.

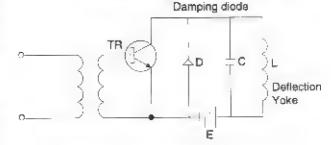


Figure 3-6 The Basic Deflection Circuit

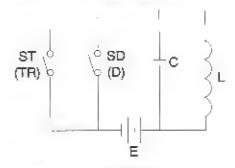


Figure 3-7 Equivalent Circuit

4. Horizontal Output Circuit Operation

Refer to Figure 3-8 above for the current wave of the voltage of the horizontal output circuit during operation.

(a) t1 — t2 Period

The base of the output transistor is added to the forward bias voltage. As the current through the base is very large, it will cause the output

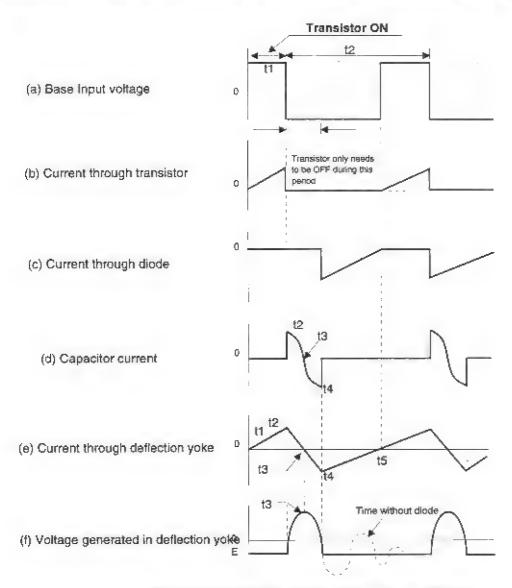


Figure 3-8 Horizontal Output Voltage/Current Waves

transistor to be saturated, corresponding to the ON state of S1 in the equivalent circuit. At this time the deflection yoke contains a current flow and because the time constant is large, the current will slowly show a linear increase as shown in Figures 3-8 (b) and 3-9 (a).

(b) t2-T3 Period

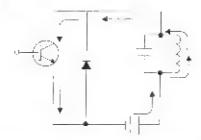
At t2, a negative load is applied to the to the base and the output transistor changes to OFF (\$1 in open state). There is no current passing through the transistor at this time and the L and C components of the deflection yoke become independent oscillation circuits. If the current is suddenly cut off, then the polarity of the inverse voltage generated at L will be as shown in Figure 3-9, (b). This voltage is viewed as the source voltage and will cause current to flow, at which time the current flowing to C is as shown in Figure 3-8 (d). At time t3 this current is 0 but the voltage at the two capacitor terminals is at maximum. This waveform is known as flyback pulse, and is shown in Figure 3-8 (f).

(c) (t3 — t4) Period

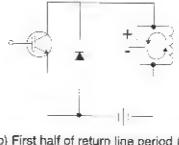
The energy accumulated in C is released to the deflection yoke, the direction of the current flow being shown in Figure 3-9 (c). The current increases as the voltage on C decreases, and at time t4, the voltage of C is 0, at which time the current is at maximum, which means the current flowing into the deflection yoke is also maximum. C is then charged and if a damping resistor is not connected, the energy between L and C will be reversed, which is the oscillation frequency set by the oscillator at L and C.

(d) t4 — t5 Period

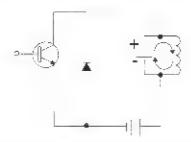
At t4, the voltage of C is 0. After this it is recharged in the opposite direction and this voltage exceeds the voltage of the power source at time t4. At this time the damping diode is ON and the L and C circuits are shorted out and stop oscillating. Because of this the time constant of r and L in the damping diode is large so the current flowing in the deflection yoke does not suddenly become 0.



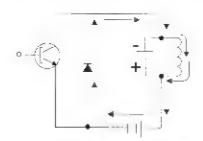
(a) Second half of scanning period (t1 - t2)



(b) First half of return line period (t2 - t3)



(c) Second half of return line period (t3 - t4).



(d) First half of scanning period (t4 - t5).

Figure 3-9 Polarity of Transformer Voltage

The current shows a linear decrease, and when it becomes 0 at time t5 the transistor is ON and the operation described above is repeated.

(e) As described above, the current flowing in the deflection yoke during scanning is the sum of the current which has passed through the transistor and the damping diode current. Please refer to Figure 3-8(e).

3.2.8. Horizontal linearity and CS Switching

Switching Cs is necessary to ensure the lines are in accordance with the specifications in multi-sync monitors.

- ☐ For frequencies 68~53 kHz, RL301 is on and Q302 is OFF and CS is C311.
- ☐ For frequencies 53~42 kHz, RL301 is ON and O302 is ON and CS is C313 and C311.
- ☐ For frequencies 42~36 kHz, RL301 is OFF and Q302 is OFF and CS is C311 and C324 in parallel.
- □ For frequencies 36-29 kHz, RL301 is OFF and Q302 is ON and CS is C311 C313 and C324 in parallel.

3.2.6. Horizontal Size Control Circuit

The different DC value output from Pin 9-10 of IC307 passes through the distributed voltage from R359 and R358 achieves one fixed DC value which is sent to Pin 3 of IC302, so the VDC from Pin 9-10 of IC307 is not the same. causing Pin 1 of IC302 to output a different DC volue, after passing though the buffer, collector of Q353, output to Q354 Q355 Darlington current amplification though L304 to adjust the current though H-DY's current value achieving size control.

			eg Deter	for
C delegate	Hanny	Veyne	PGTMTT	PGTMT0
On	Pulses	Pulses	1	1
Standby	No Pulses	Pulses	0	1
Suspend	Pulses	No Pulses	0	0
Off	No Pulses	No Pulses	0	0

SCAP1 H L H SCAP2 Н H

3.2.7. X-RAY Protection Circuit

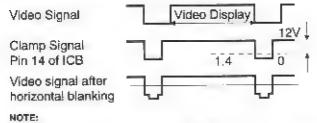
1. The feedback pulse from T302 F.B.T is regulated through D373 to obtain a DC voltage and the appropriate set voltage is distributed by R337 and R339. When the feedback pulse voltage exceeds the set voltage, the +15v output form Pin 7 of IC303, after passing through D371, R401 and input to Pin 8 of IC304. Because of this, IC304 TDA9102C is OFF, so there is no vertical or horizontal sync output form Pin 7,15 of IC304 and the monitor shuts down.

3.3. Video Amplifier

The RGB video and sync signals are supplied through a video cable directly to the Video Board at connector P501. The RGB signals are terminated in 75 ohms by R501 and R503, R505 and R506.

The RGB signals then enter an LM1207 video pre-amplifier IC, providing synchronous black level clamping, variable picture contrast (gain) and RGB gain balance for color alignment. Separate gain control voltages for the three pre-amplifier channels are provided via R556, R557 and R558 from the TDA8444 DAC which is loaded by the microcontroller via the I2C bus. These inputs enable the individual gains of each channel to be varied to allow channel gain balance. In addition, a common signal is applied on pin 12 to adjust all three channels by the same amount, to allow for overall gain or contrast control.

A synchronous clamping signal is derived from the horizontal sync pulse by one half of IC504. This takes the trailing edge of the horizontal sync pulse, differentiates it through C531, then squares it via the monostable feedback action of C525 and R513 to provide a precise length digital clamping pulse which is applied IC503 via pin 14. The timing is shown in Figure 3-10, below.



- A. Clamp1 signal is generated from flyback time.
- B. When the Clamp1 signst is less than 1.4Vp-p, the IC's internal clamp loop will operate; when greater than 1.4Vp-p, it will not operate.

Figure 3-10 Timing of Pin 14 Clamp Signal

The outputs of the video pre-amplifier are fed to IC501, a hybrid power amplifier IC type LM2419, through resistors R524, R526 and R528. In addition, On screen Display video information generated by IC502 can be injected via diodes D513, D514 and D515.

IC501 amplifies the vidco signals to around 35Vp-p. The outputs are AC coupled to the CRT cathodes via C523, C512 and C513. In order to bias the DC level of the cathodes correctly, the AC coupled signal is DC restored by clamping to a DC voltage which can be varied under microprocessor control. Considering Red channel output on IC501 as an example, the signal is clamped by D517 to the voltage set by the two transistor amplifiers formed by Q502 and Q501, which amplify the adjustable voltage at the output of the DAC. A similar stage can be seen for the green and blue channel outputs.

When the RC video signal amplification circuit is added for amplification, this waveform will change as shown in Figure 3-11 (a). Without the DC component, as shown in Figure 3-12 (b), the DC level of darker and brighter displays will be

different, so when this kind of signal without a DC component is sent to the CRT, it will cause the contrast of the image to change as the signal changes. Therefore, Q501, Q502 and D517 serve as a DC clamp and the CRT's anode DC voltgae can be adjusted by the DAC.

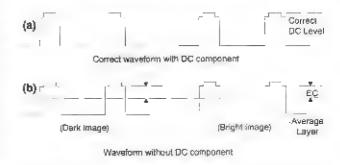


Figure 3-11 Effect of DC Component on Waveform

IC502 is an On Screen Display processor. This is a simple video generation IC that has its own crystal oscillator, X501, by using an internal Phase Locked Loop (PLL) the IC can sync to the incoming vertical and horizontal oscillator frequencies and produce the OSD video signals once initialized and loaded by the commands and data received on the I2C bus. When the OSD display is activated, the blanking output of the IC502 also sends a signal to the blanking input of IC503 (pin 13) to provide an optional black background for the OSD display.

The RGB signals are amplified to drive the CRT by an LM2419 hybrid amplifier and capacitively coupled to the cathodes.

Brightness control is achieved by varying the bias of G1 of the CRT via a transistor stage formed by Q507 which is also driven by an output of the TDA8444. Horizontal and vertical blanking signals are coupled into this amplifier to prevent visible retrace lines.

3.4. Microprocessor And Sync Processing

The microprocessor is an 80C51 type. It has 8k internal masked ROM which contains a basic communication 'boot' routine and various other simple routines. It is also used to store the OSD icon bit maps. The main firmware routines and variable data are stored in the 8k external EEROM, 1C702.

When the micro is instructed via the RS232 bus, the internal ROM boot routine will load up the EEROM with program data from the RS232 bus. Thus it can be made to load its own firmware. From then on it will run jointly out of EEROM and internal ROM. Another important routine within the internal ROM is the routine which allows data writes to made to the EEROM. This must be resident in the micro as it cannot run from the EEROM whilst writing data. IC705 and IC704 control the addressing and I/O port selection from the micro.

IC706 allows the micro to scan the front user interface switch matrix. Also specialized ports P1.6 and P1.7 form the IIC bus

interface which is used internally to set the DAC values and the OSD IC.

The micro also drives the sync selection circuits. IC708 is used to set the polarity of the incoming sync signals. IC703 allows the micro to sample the vertical and horizontal syncs and to select the correct polarity on the outputs HSYNC and VSYNC appropriately. In addition, whilst sampling the polarity, the micro can measure the frequency of both syncs. By suitable selection of HSYNC and VSYNC control lines, IC703 can also select the signals derived on HDR and VRET. These two signals come from the horizontal and vertical oscillators. By measuring these with the internal timers, the micro can set up the oscillators for optimum lock to the sync signals. It does this when ever a mode change occurs.

A mode change is detected by either a change in vertical frequency, which is monitored by firmware, or by a sudden change in horizontal frequency. IC712 is clocked and reset by the horizontal sync pulse and the HDR line. If any sync pulse is not matched by a HDR pulse then an interrupt is created on the MODEC line.

When power is disturbed to the unit, the power reset line goes low. This also causes an input to the micro via the MODEC line. On detecting this interrupt, the micro first checks inputs P1.3 and P3.5. If these are also low, then it knows the MODEC interrupt was caused by an impending power failure. In this case the micro saves the current RAM data in EEROM and prepares for power off. The RESET line is delayed for 10ms by R717 and C722 to allow time for the data to be saved. The REST line then holds off the micro and the EEROM until power is good once more.

If the front panel ON/OFF button is pressed, a MODEC interrupt is also created. This time only P3.5 is pulled low so the micro can detect that the interrupt was from the front panel. In this case the micro saves the data but flips the bit which stores the last power on state. The micro is then reset. When the reset disappears the micro bring up the power in the opposite state to before, i.e., if the power was off before then power is now on. In this way the front user on/off switch can toggle the on/off state and also always act as a micro reset switch.

3.4.1. DAC Assignments

The DAC assignments are shown in the table below.

4	Ditt English		If the table below.
The second second second second second	Addr. Bits A2 - A1 - A0	Ret. Designator	Function
DAC 0-0	0 - 0 - 0	IC306 pin 9	H PHASE1
DAC 0-1	0 - 0 - 0	IC306 pin 10	VSIZE2
DAC 0-2	0 - 0 - 0	IC306 pin 11	VSIZE1
DAC 0-3	0 - 0 - 0	IC306 pin 12	HF1
DAC 0-4	0 - 0 - 0	IC306 pin 113	HF2
DAC 0-5	0 - 0 - 0	IC306 pin 14	HPHASE
DAC 0-6	0-0-0	IC306 pin 15	PARALLEL- OGRAM (TILT)
DAC 0-7	0-0-0	IC306 pin 16	VPOS
DAC 1-0	0-0-1	IC307 pin 9	WIDTH1
DAC 1-1	0-0-1	IC307 pin 10	WIDTH2
DAC 1-2	0-0-1	IC307 pin 11	ROTATE
DAC 1-3	0-0-1	IC307 pin 12	PIN
DAC 1-4	0-0-1	IC307 pin 13	KEY
DAC 1-5	0-0-1	1C307 pin 14	VLIN
DAC 1-6	0-0-1	1C307 pin 15	VFREQ
DAC 1-7	0-0-1	IC307 pin 16	INHPOS
DAC 0-0	0-1-0	IC5 pin 9	BRIGHTNESS
DAC 0-1	0 - 1 - 0	IC5 pin 10	G BIAS
DAC 0-2	0-1-0	1C5 pin 11"	B BIAS
DAC 0-3	0-1-0	1C5 pin 12	R BIAS
DAC 0-4	0-1-0	IC5 pin 13	R GAIN
DAC 0-5	0-1-0	IC5 pin 14	G GAIN
DAC 0-6	0-1-0	IC5 pin 15	B GAIN
DAC 0-7	0-1-0	IC5 pin 16	CONTRAST

Table 3-1 DAC Assignments

Section 4. Setup Adjustments

4.1.	Preparing the Display for Adjustment 4-1
4.2.	Adjustment Procedures4-1
4.3.	High Voltage Verification
4.4.	Background Brightness Setting 4-2
4.5.	Screen Brightness Adjust
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4.9.	Focus Adjustment
4.10.	Primary Test Mode
4.11.	Performance Adjustments for All Preset Mode 4-3
4.12.	Image Performance Verification 4-3
4.13.	Uniformity Verification
4.14.	Brightness Verification
4.15.	Display Size Starility
4.16.	Color Purity Verification
4 17	Video Noise

4.1. Preparing the Display for Adjustment

Before adjusting any the display settings or making final adjustments after service, perform the following pre-test settings to prepare the display for adjustment:

- Be sure to allow the display to warm up for at least 30 minutes before making any adjustments.
- When making tests and adjustments, the CRT should be facing east or west to minimize the affect of the earth's magnetic field.
- Set the contrast control at 80% and the brightness control at 50 % for all tests unless otherwise specified.
- Thoroughly degauss the entire screen with a manual degausser before proceeding with tests.
- All test should be performed with the rated power supply voltage unless otherwise specified.

4.1.1. Test Equipment Required

The following equipment will be required to make the tests and adjustments detailed in this section:

- Video signal and pattern generator.
- Digital multimeter
- □ Degausser

4.2. Adjustment Procedures

4.2.1. Adjustment Sequence

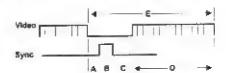
This display undergoes an automatic alignment procedure during manufacture. This alignment procedure follows a fixed sequence of adjustments which are duplicated in this section. When making manual adjustments during service, you should always make the adjustments in the order given here to ensure correct results.

4.2.2. Timings Used During Adjustment

The timings required to be imput during alignment consist mostly of the preset timings stored in the display, but one non-preset timing is required for Vertical F/V adjustment. The complete list of standard preset timings and non-preset timing for use in alignment is given in the table below.

IMPORTANT NOTE

The preset timings for different versions of this model may differ from those shown here. Be sure to check the list of preset timings for the unit being serviced.



Mode Number	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6	Mode 7	Mode 8	Mode 9	Mode 10
Preset (Y/N)	1	Y		Y	Y	Y	Y	Y	Y	Y
Data Pixel	1024	1024	1280	800	800	800	640	640	1024	640
Data Line	768	768	1024	600	600	600	480	480	768	480
H. Freq (kHz)	60.023	58.230	50.000	48.077	46.875	37.879	37.861	37.500	35.520	31.469
V. Freq. (Hz)	75.029	72.245	87.030	72.188	75.000	60.317	72.809	75.000	86.960	59.940
Pixel Rate (MHz)		75.000	60,000	50.000	49.500	40.000	31.500	31.500	44.900	25.176
Hor. FP µs (A)	0.203	0.320	1.000	1.120	0.323	1.000	0.762	0.508	0.178	0.636
Hor, Sync µs (B)		1.813	1.000	2.400	1.616	3.200	1.270	2.032	3.920	3.813
Hor. BP μs (C)	2.235	1.387	2.000	1.280	3.232	2.200	4.064	3.810	1.247	1.907
Hor. Active µs (D)		13.653	16.000	16.000	16.162	20.000	20.317	20.317	22.810	25.422
Hor. Total us (E)		17.173	20.000	20.800	21,333	26.400	26.413	26.667	28.151	31.778
Ver. FP ms (A)	0.017	0.052	0.500	0.770	0.021	0.026	0.238	0.027	0.000	0.318
Ver. Sync ms (B)		0.103	0.100	0.125	0.064	0.106	0.079	0.080	0.113	0.064
Ver. BP ms (C)	0.466	0.498	0.650	0.478	0.448	0.607	0.740	0.427	0.563	1.048
Ver. Active ms(D)		13.189	10.240	12.480	12.800	15.840	12.678	12.800	10.810	15.253
Ver. Total ms (E)	13.328	13.842	11,490	13.853	13.333	16.579	13.735	13.333	11.485	16.683
Polarity (H,V)	+,+	- _k -	+,+	+,+	+,+	+,+	-,-	_,-	+,+	_,-,-

Table 4-1 Preset Timings

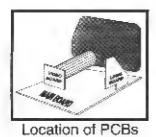
IMPORTANT: NOTE

The adjusment settings in this section are based on REVISION B of the factory alignment procedures. Appendices detailing changes in the factory alignment procedures that have occurred since publication of this service manual are available upon request.

Initial settings to be carried out manually prior to automatic alignment:

4.3. High Voltage Verification

- Check that the 75V voltage is 75V±0.1. Adjust VR1(see Figure 4-1 for location) to correct if necessary.
- Input a cross hatch pattern in 60.024kHz 1024x768 mode and adjust VRP1 on the mainboard(see Figure 4-1 for approximate location) so the high voltage is in the range 26kv±0.3kv.



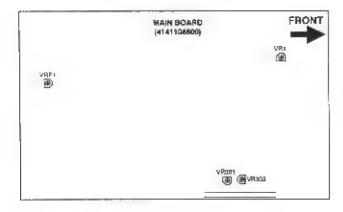


Figure 4-1 Location of Mainboard

Steps used in white balance adjustment:

4.4. Background Brightness Setting

 Input a mode in 60.023kHz 1024x768 and turn external brightness to maximum. With video input at 0V,

- adjust the SCREEN VR so background brightness is approximately 1.5FL±0.1FL.
- Before carrying out white balance adjustment, make sure that the display size and linearity are in spec.

4.5. Screen Brightness Adjust

- Input a 60.023kHz 1024x768 mode timing with no video input. Adjust VR301 and make ABL no action and adjust external brightness to 0.08FL.
- 2. Input a full white pattern, set external contrast to maxsimum and adjust VR302 and check that brightness at the center of the screen is in the range 32FL±1FL. Input a full white pattern, set external brightness to maximum and adjust VR301 and check that brightness at the center of the screen is in the range 36FL±1FL.

4.6. Magnetic Field Configuration

- 1. Configure the magnetic field as follows:
 - □ Northern hemisphere: H=0.01, V=0.45
 □ Southern hemisphere: H=0.01, V=-0.52

4.7. Tilt Verification

 Input a cross batch pattern in 60.023kHz 1024x768 mode and use the tilt rotation key to ensure that tilt is less than lmm.

4.8. Focus Verification

- Input a full white pattern in 60.023Hz 1024x768 mode.
 Use the external brightness control to adjust background brightness so it is not visible and set external contrast so the brightness is 30FL. Switch to a display of "@" characters.
- Adjust the FBT focus VR1 and VR2 so the @ characters are as clear as possible.

4.9. Color Misconvergence

- Input a full white pattern in 60.023kHz 1024x768 mode and adjust external brightness so there is no background brightness and external contrast so the screen brightness is 30FL.
- Switch to a cross hatch pattern and verify that misconvergence in a circle measured from the center of the screen(Area A) is not greater than 0.3mm, and for all areas outside Area A is not greater than 0.4mm.

Automatic camera alignment procedure:

The procedures listed below are those carried out using the automatic Camera Alignment System(CAS). These adjustments cannot be made manually but must be performed using the CAS software provided by the manufacturer.

4.10. Primary Test Mode(56.47kHz 1024x768 mode)Performance Adjustments

H. RASTER CENTERING
 Raster area centered horizontally in the bezel.

V. RASTER CENTERING
 Raster area centered vertically in the bezel.

ROTATION(TILT)
 Raster area aligned with bezel.

4.11. Performance Adjustments for All Preset Modes

H POSITION
 Centers the display horizontally in the raster area (L-R<=1mm).</p>

H SIZE
 Configures display width as 300±3mm.

V POSITION
 Centers the display vertically in the raster area (T - B<=1mm).</p>

V SIZE
 Configures display height as 225±3mm.

V. Linearity
 Configures vertical linearity as less than 8%.

PINCUSHION
 Sets left and right pincushion distortion to less than 1.5mm.

KEYSTONE
 Sets upper and lower keystone distortion to less than 1.5mm.

PARALLELOGRAM
 Sets parallelogram distortion to less than 1.5mm

Conclusion of automatic alignment:

4.12. Image Performance Verification

Input each of the preset timings and check that the following specifications are met:

Horizontal Position
 L - R ≤3mm

2. Horizontal Size 300 ±3mm.

Vertical Position
 T - B ≤3mm

4. Vertical Size 225 ±3mm.

Horizontal Linearity
 H ≤ 10% (10x8 cross hatch pattern)

This calculation is based on the following formula:

$$\frac{\text{Max} - \text{Min}}{\text{Max}} \times 100\% \le 8\%$$

Vertical Linearity
 V≤8.0% (10x8 cross hatch pattern).

$$\frac{\text{Max} - \text{Min}}{\text{Max}} \times 100\% \le 8\%$$

7. Recall Button Function

Adjust H/V phase and size at random using the external controls and press the recall button. Check that the image performance has returned to be in spec, which will indicate the Recall button is functioning correctly.

4.13. Uniformity Verification

Input a 2" square pattern in 60.023kHz 1024 x 768 mode, set contrast to maximum and check that there is no overshoot. Check that the brightness in the four corners of the screen is not less than 70% of that in the center of the screen.

4.14. Brightness Verification

- Input a 60.023kHz 1024x768 mode timing with no video input. Adjust external brightness to 0.08FL.
- Input a full white pattern and adjust external contrast to maximum then check that brightness at the center of the screen shall be more than 30FL, adjust external brightness to maximum and check that brightness at the center of the screen is 36FL±3FL.

4.15. Display Size Stability

 Inputer a full white pattern in 60.023kHz 1024x768 mode, set external brightness at 5FL and measure the display size, adjust the brightness to 30FL and remeasure the display size. The difference should be less than 2.0mm.

4.16. Color Purity Verification

- Input a full white pattern in 60.023kHz 1024 x 768 mode and adjust external brightness so there is no background brightness and adjust external contrast to 25FL. Make a visual check of color purity as follows:
 - a) Input the red (R) signal only; no green (G) or blue (B) should be visible.
 - b) Input the G signal only; no R or B should be visible.
 - e) Input the B signal only; no R or G should be visible.

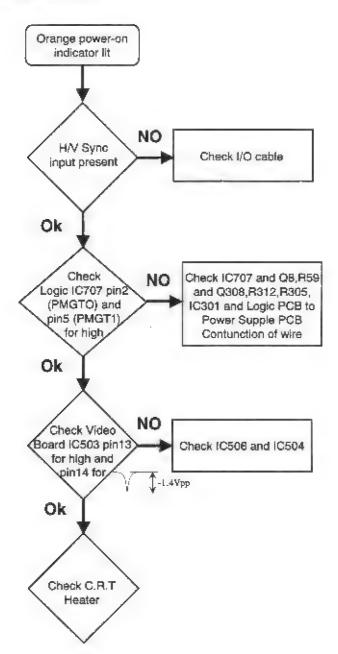
4.17. Video Noise

 Input a cross hatch pattern or full white pattern in 60.023kHz 1024x768 mode and make a visual check from a distance of 48.3cm (19 inches) for any video noise or other on screen interference.

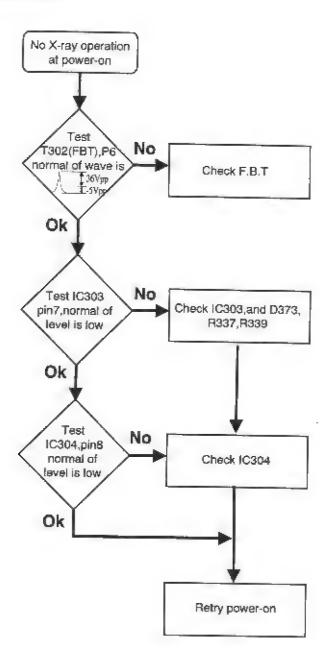
Section 5. Troubleshooting

5.1.	No Display at Power-on
5.2.	No X-ray Operation
5.3,	No Video Operation
5.4.	Poor Vertical Linearity5-4
5.5.	Poor Uniformity
5.6.	Tilted Display Area
5.7.	Misconvergence
	Misconvergence

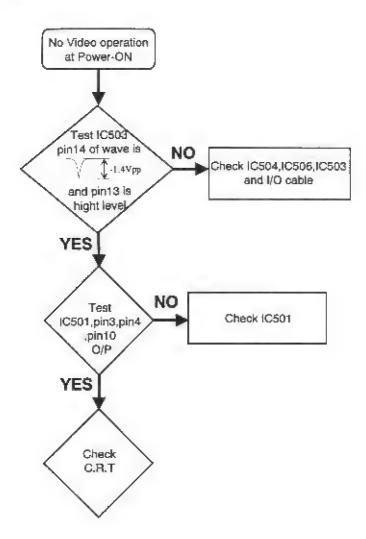
5.1. No Display at Power-on



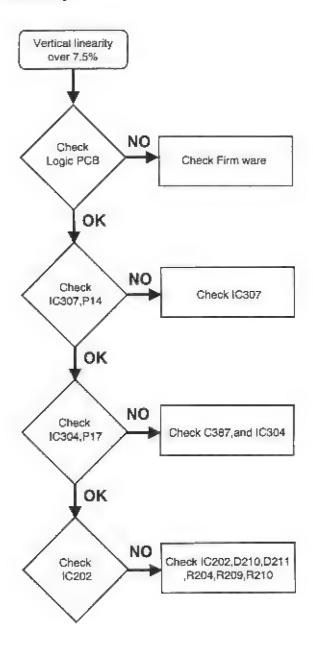
5.2. No X-ray Operation



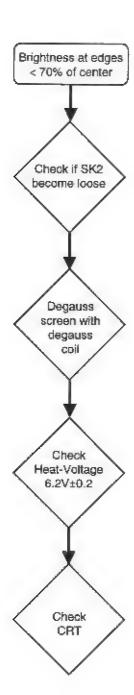
5.3. No Video Operation



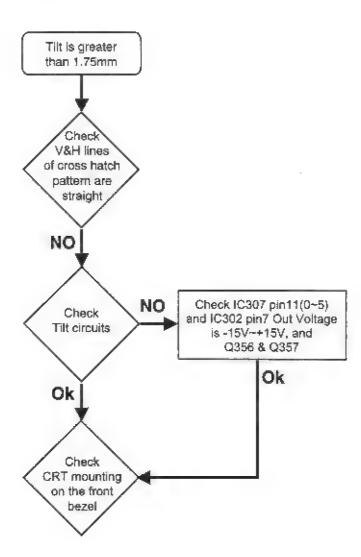
5.4. Poor Vertical Linearity



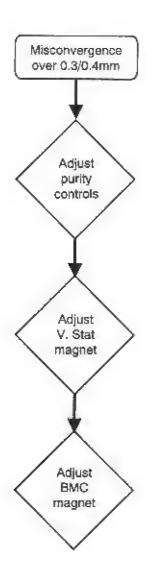
5.5. Poor Uniformity



5.6. Tilted Display Area



5.7. Misconvergence



Section 6.

Printed Circuit Boards

6.1.	Main Board
6.2.	Neck Board6-2
6.3.	Logic Board6-3
6.4.	Control Panel Board 6-3

6.1. Main Board

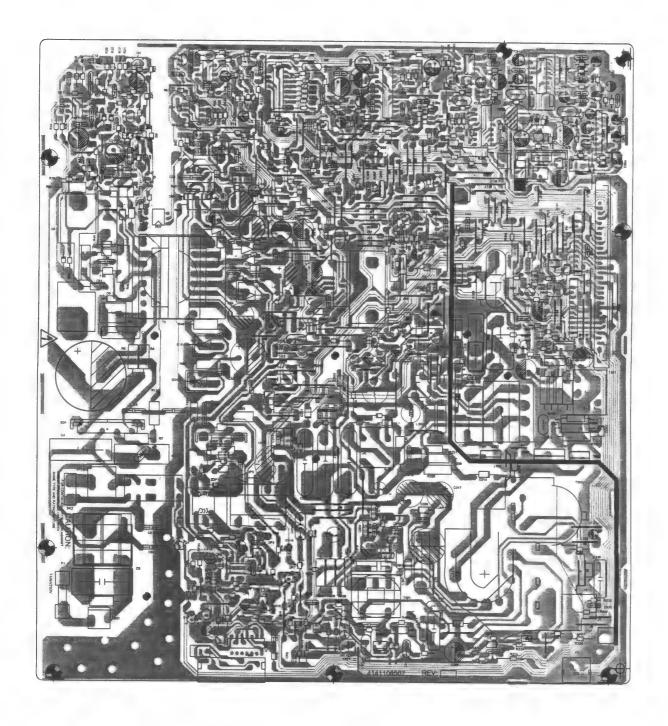


Figure 6-1 Main Board (Solder Side)

6.2. Neck Board

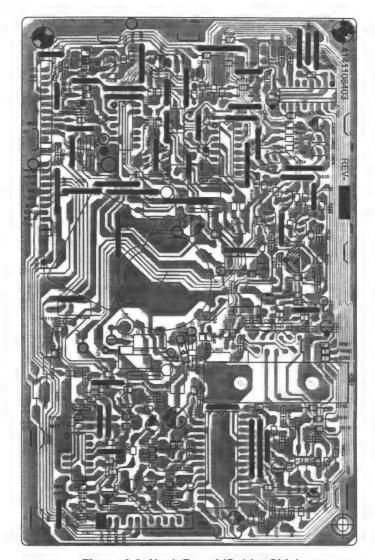


Figure 6-2 Neck Board (Solder Side)

6.3. Logic Board

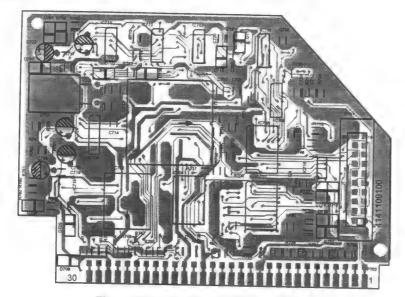


Figure 6-3 Logic Board (Solder Side)

6.4. Control Panel Board



Figure 6-4 Control board(solder size)

Section 7. Schematic Diagrams

7.1.	S/P/S Circuit Diagram	7-2
7.2.	Video Circuit Diagram	7-3
7.3.	Logic Circuit Diagram	7-4
7.4	Deflection Circuit Diagram	7-5

7.1. S/P/S Circuit Diagram

Please refer to the attached circuit diagram.

7.2. Video Circuit Diagram

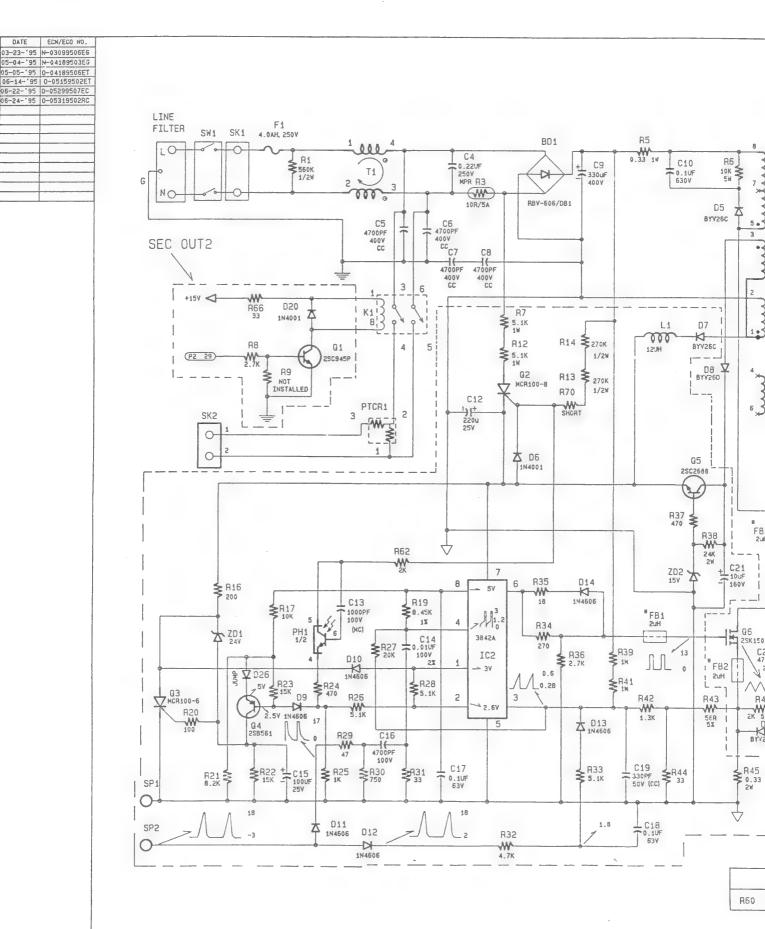
Please refer to the attached circuit diagram.

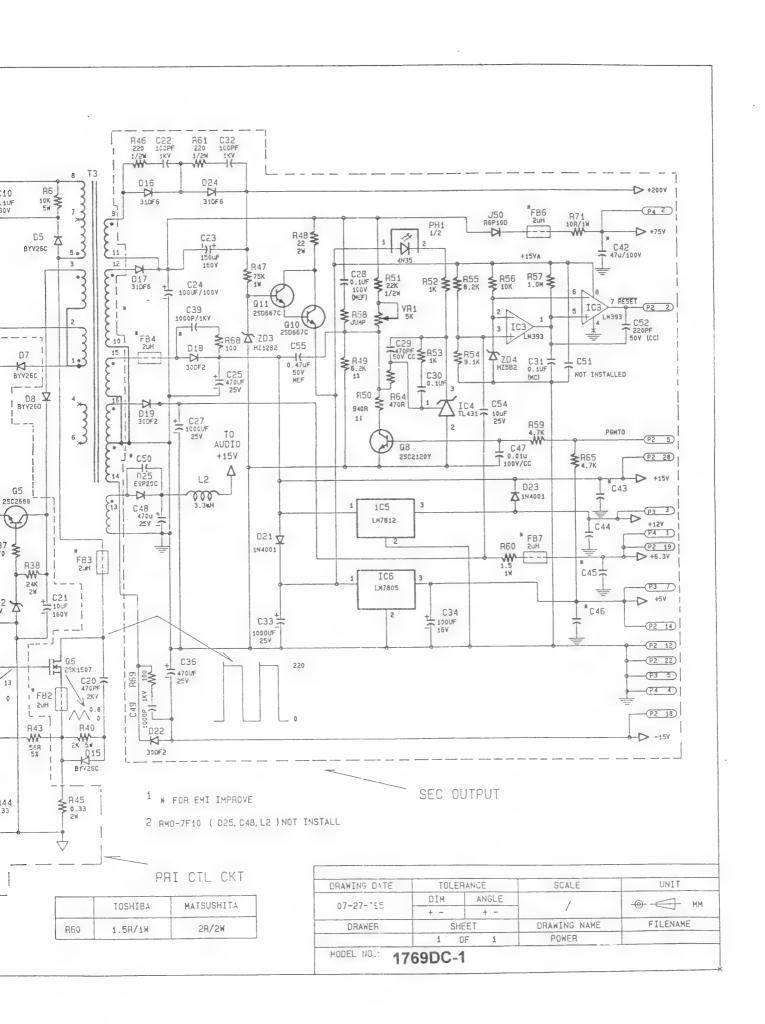
7.3. Logic Circuit Diagram

Please refer to the attached circuit diagram.

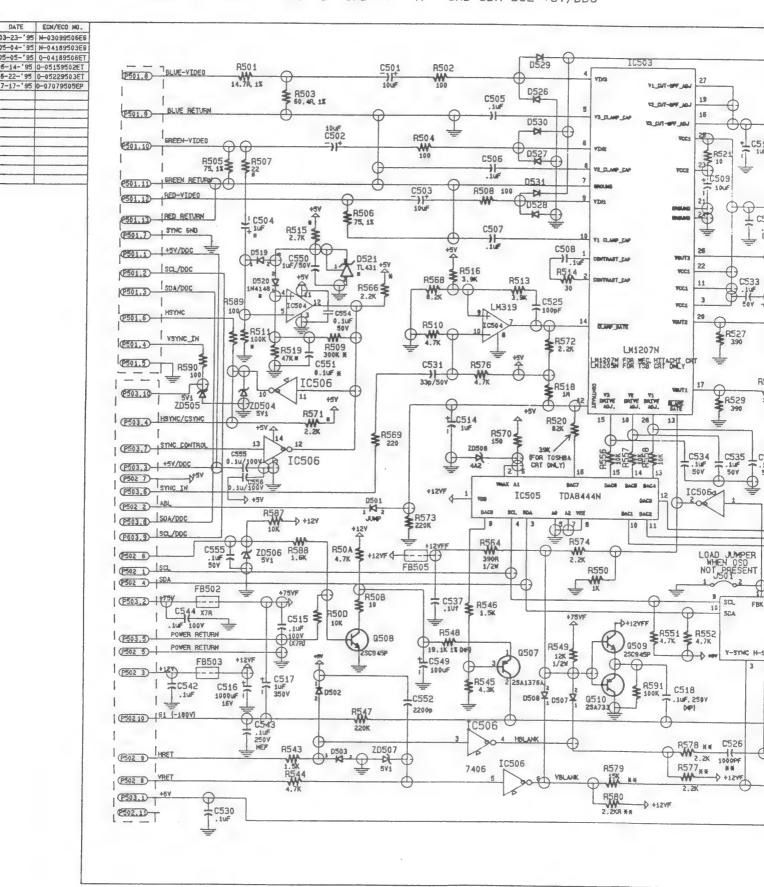
7.4. Deflection Circuit Diagram

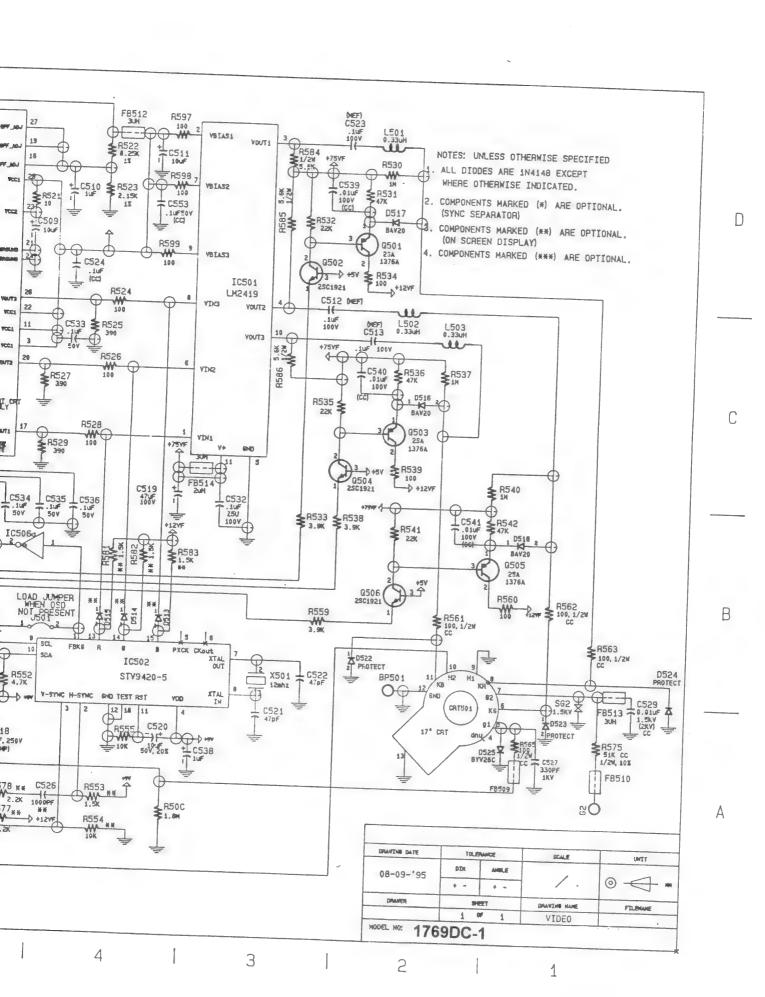
Please refer to the attached circuit diagram.

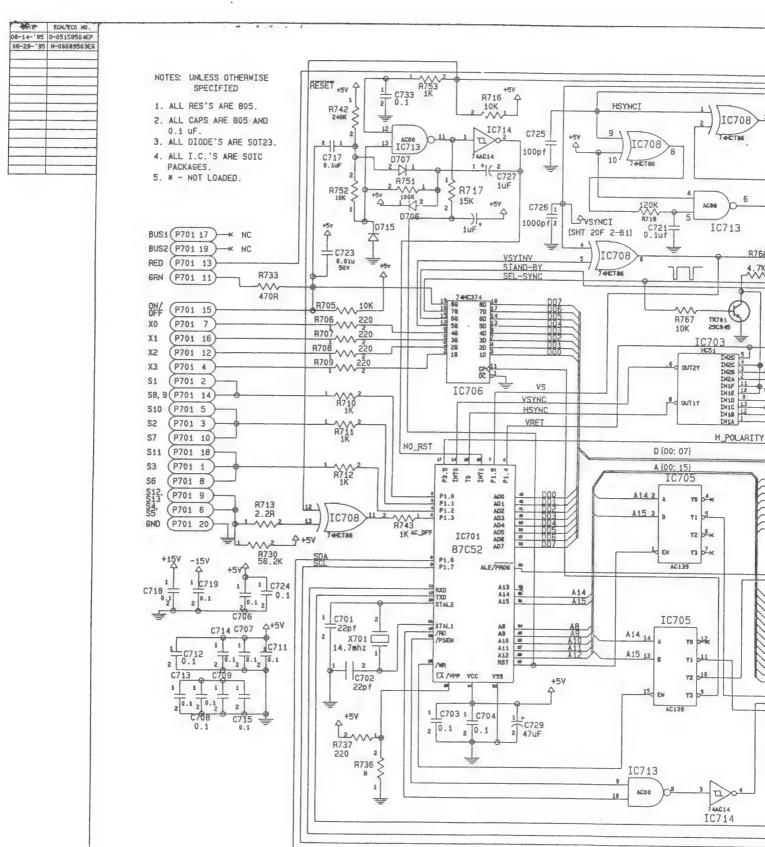


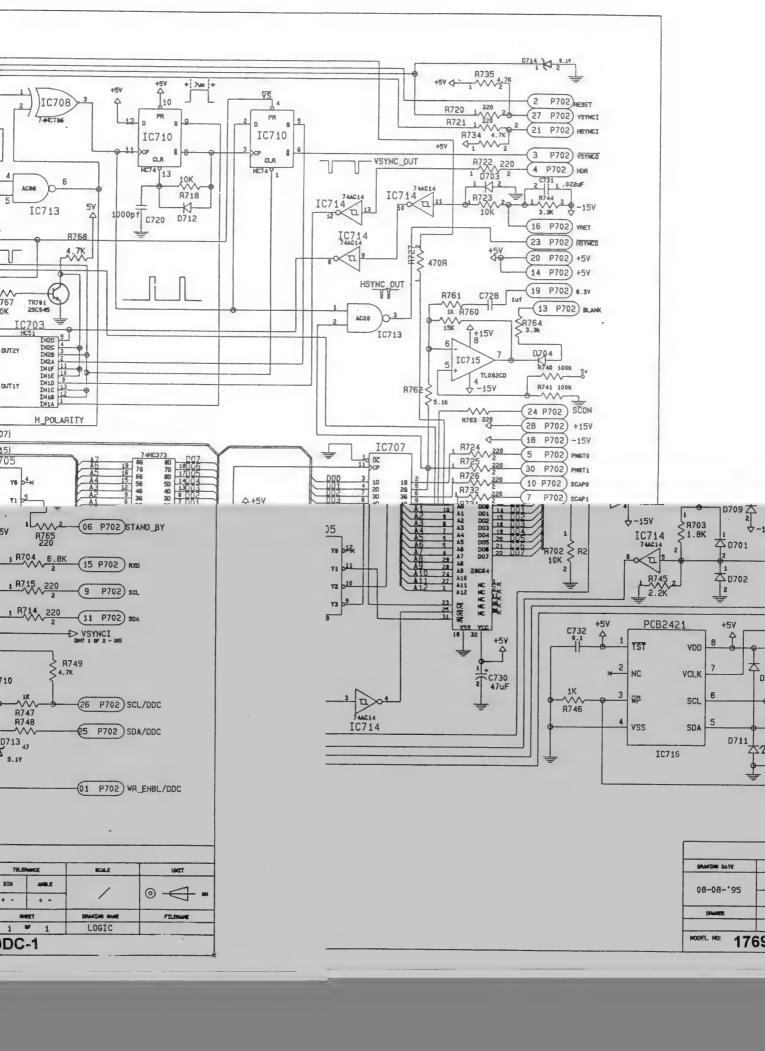


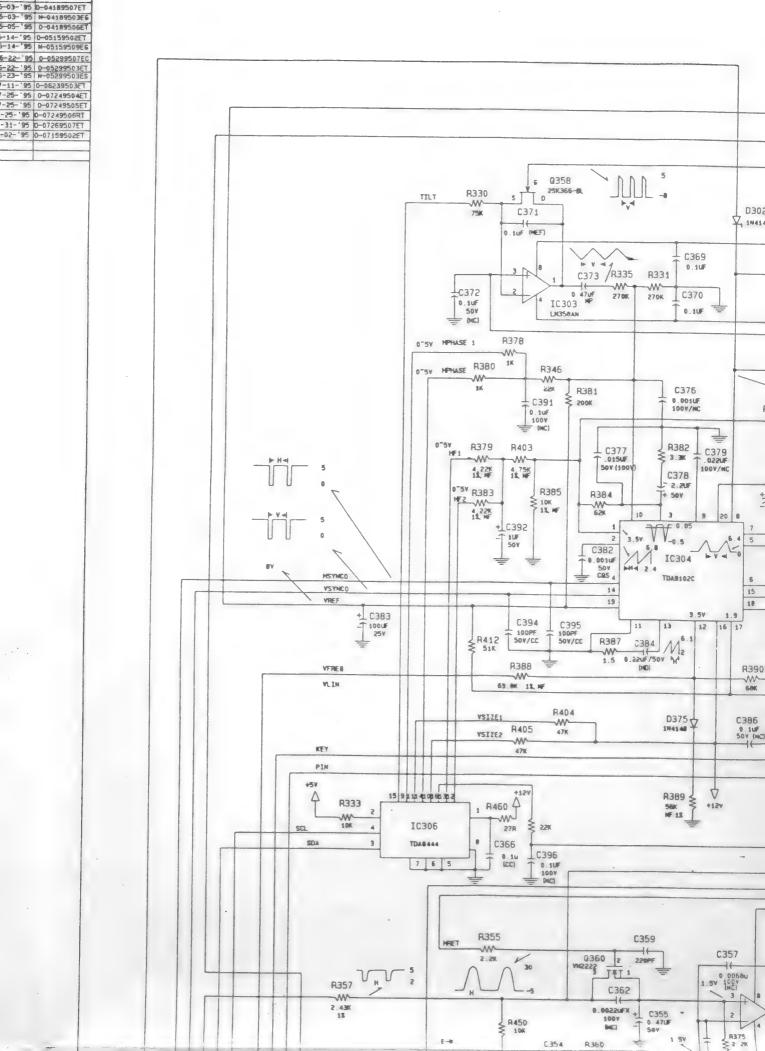
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. GND R GND G GND B GND V H GND SDA SCL +5V/DDC

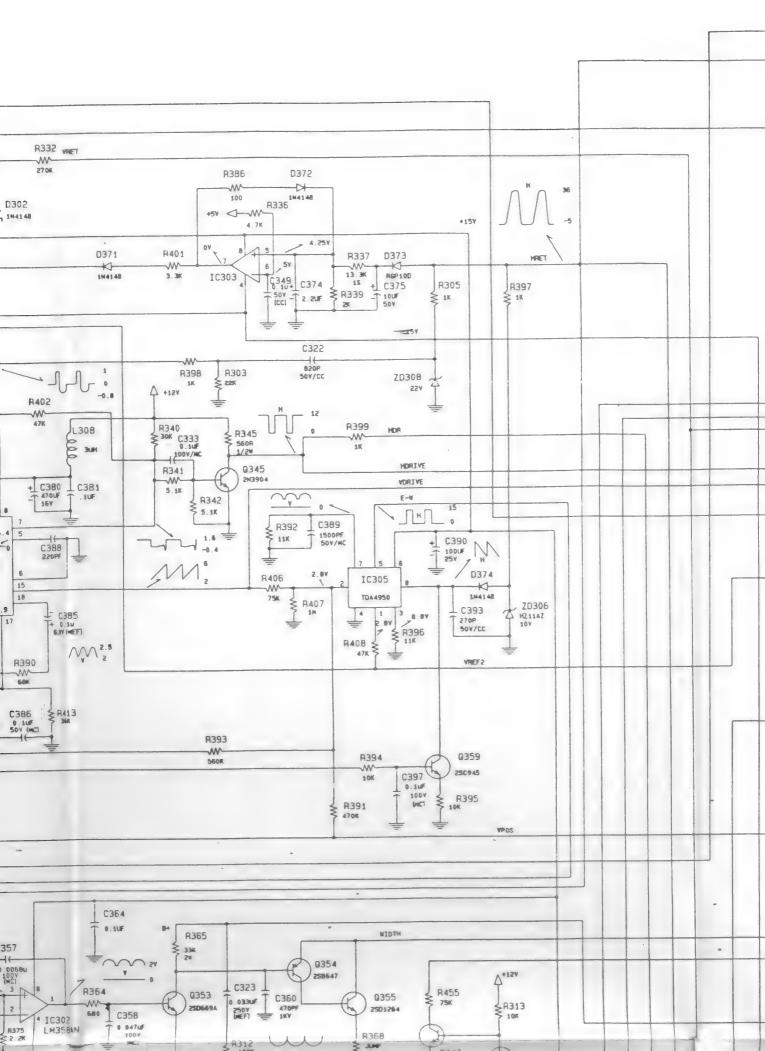


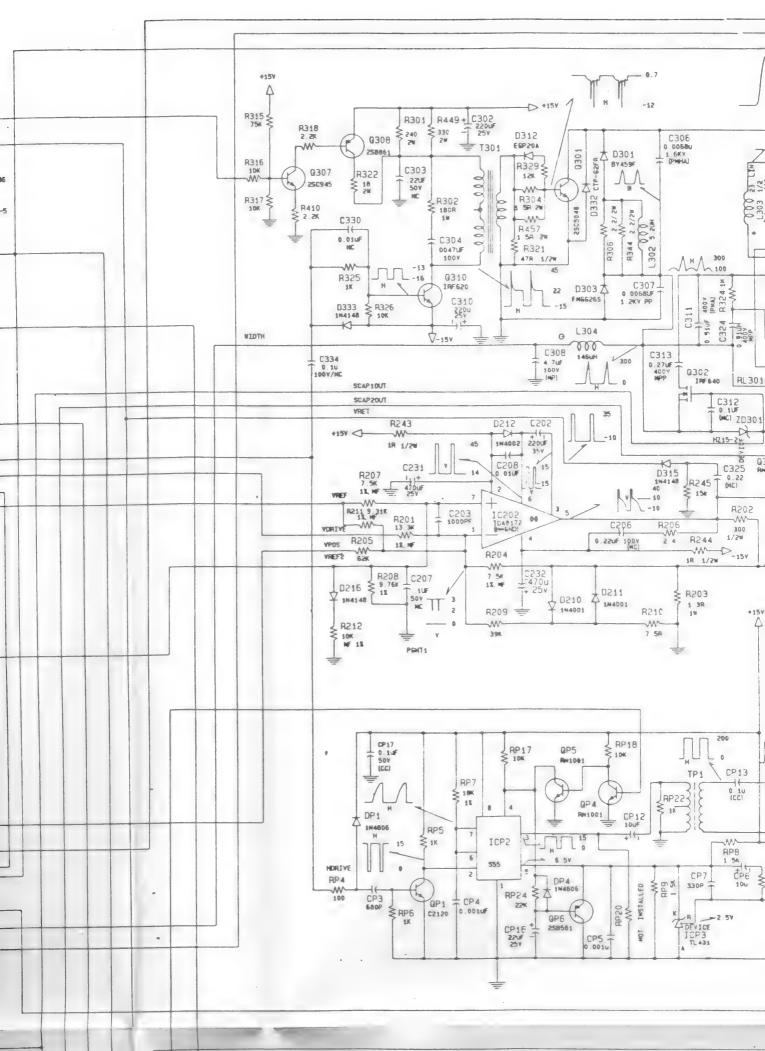


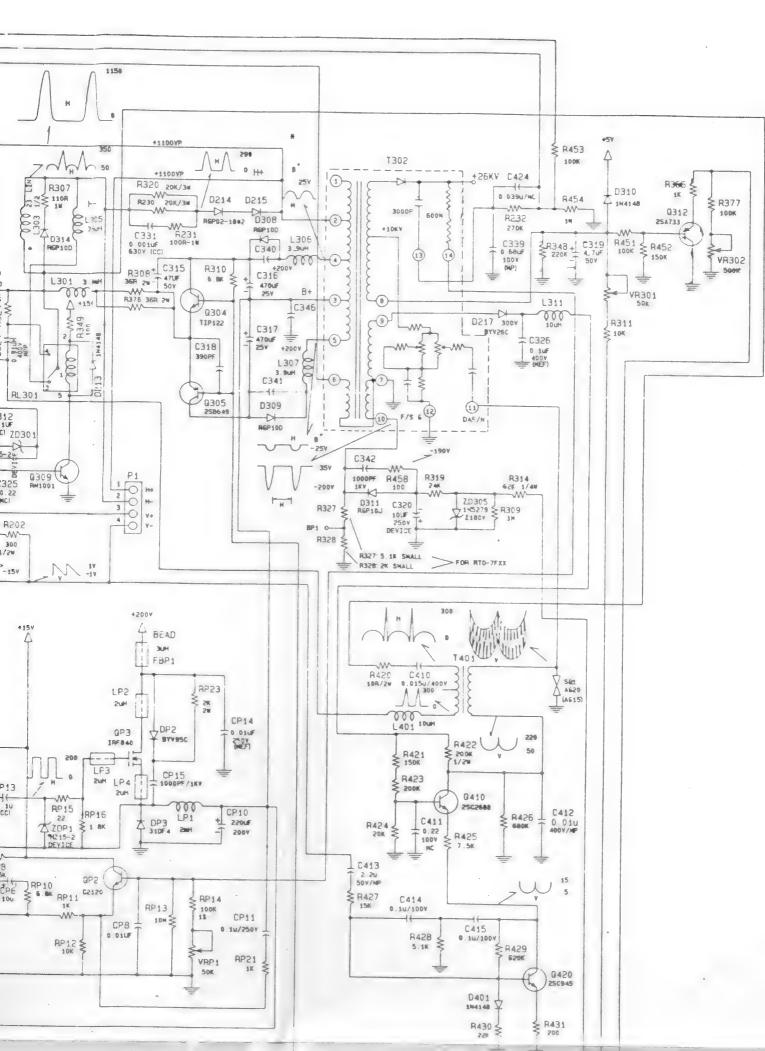


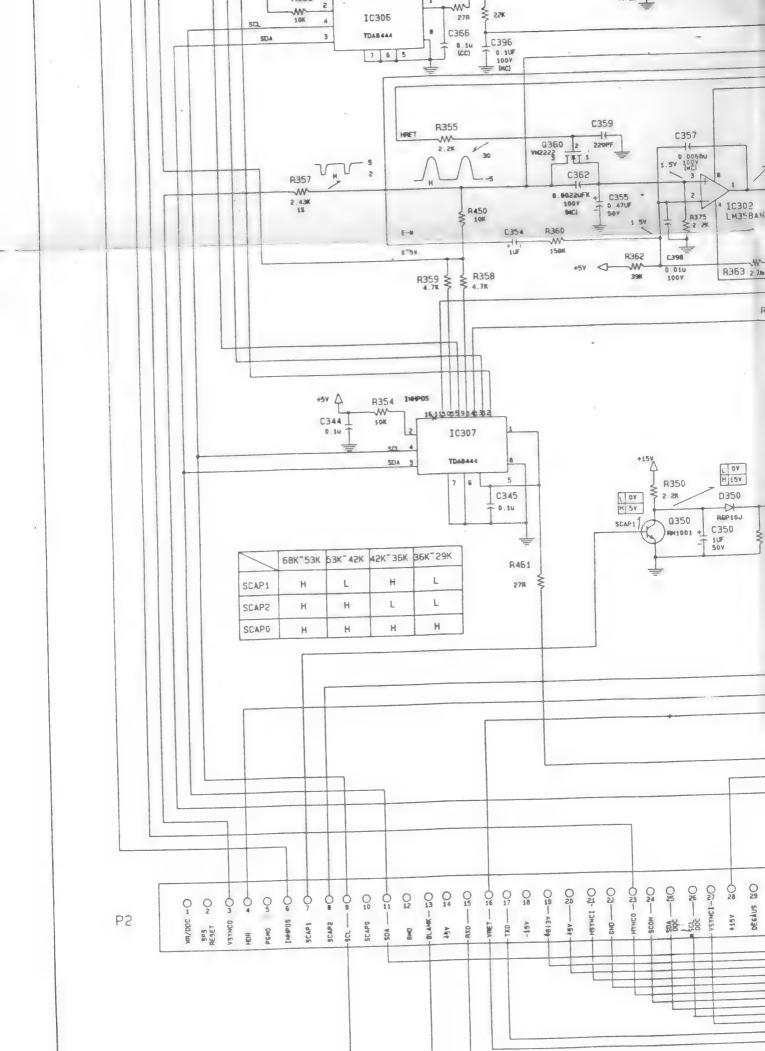


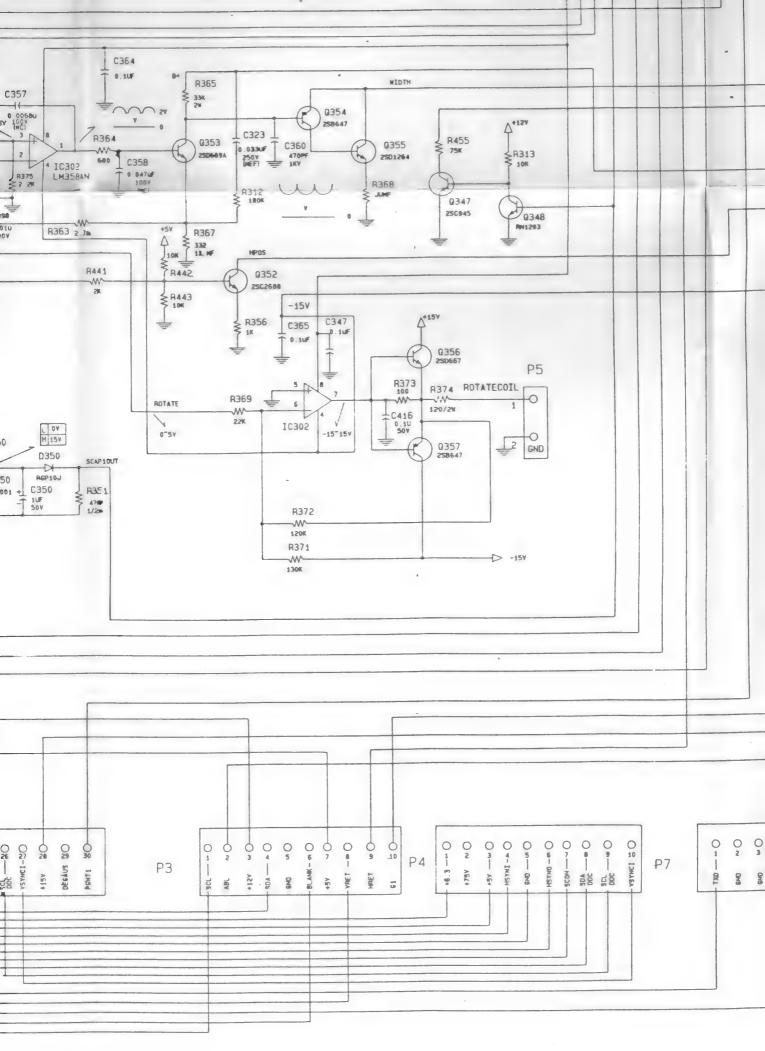


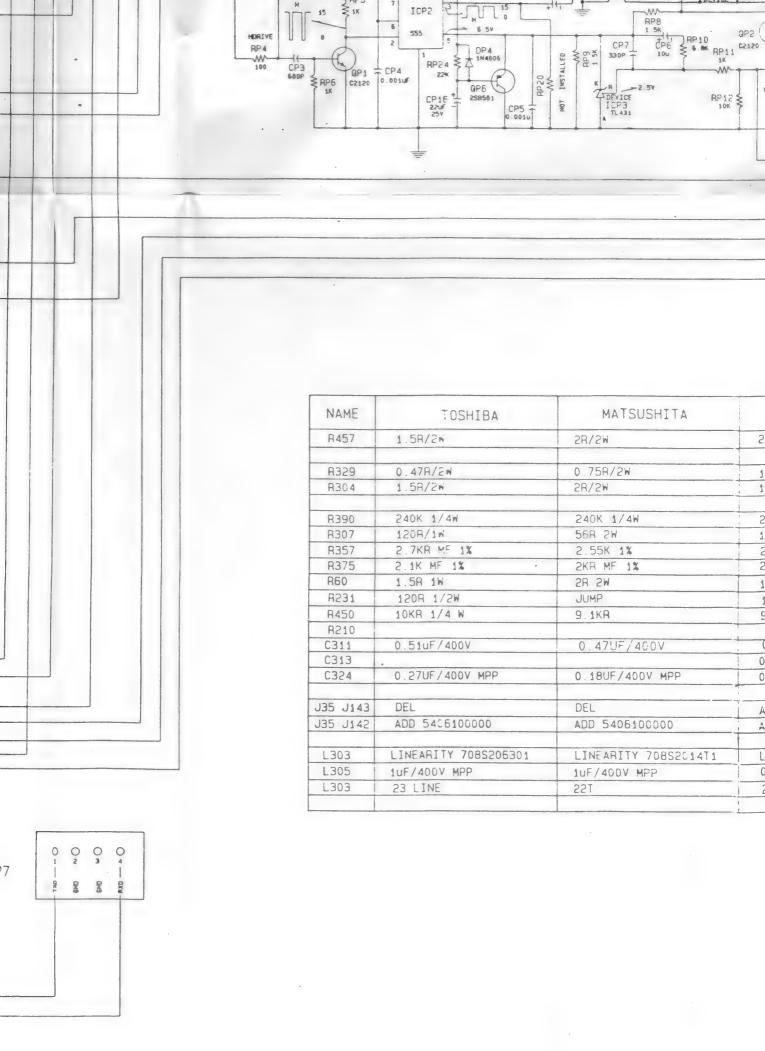


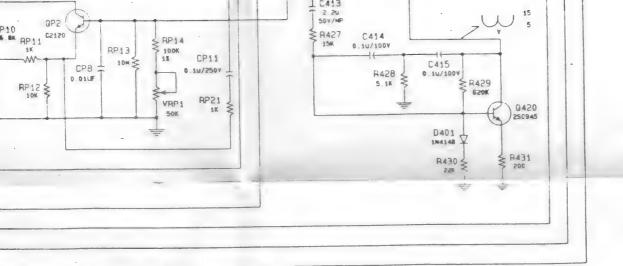












| | HITACHI |
|-----|-----------------------|
| | 2R/2W |
| | |
| | 1R/2W |
| | 1.5R/2W |
| - + | 240K |
| | 110A 1W |
| | 2.43K 1/4W MF 1% |
| 1 | 2.1KR MF 1% |
| | 1.5R 1W |
| | 100R 1W |
| 1 | 9.1KR |
| | 518 |
| | 0.47uF/400v |
| 1 | 0.24uF/400v |
| _ | 0.82uF/400V |
| | ADD 5406100000 |
| -+ | ADD 5406100000 |
| | LINEARITY 708S2063010 |
| | 0.91UF/400V MPP |
| ! | 23 LINE |
| - | |
| | |

| DRAWING DATE | TOLERANCE | | SCALE | UNIT | |
|--------------|-----------|-------|--------------|--------------|--|
| 00 00 105 | DIM | ANGLE | | → ← | |
| 08-02-'95 | + | - | | | |
| DRAWER | SHEE | T | DRAWING NAME | FILE NAME | |
| **** | 1 OF | 1 | DEF | | |

Section 8. Mechanical Parts

| 8.1 | Exploded View 8- | . * |
|-----|----------------------|-----|
| 8.2 | Key to Exploded View | 2 |

8.1. Exploded View

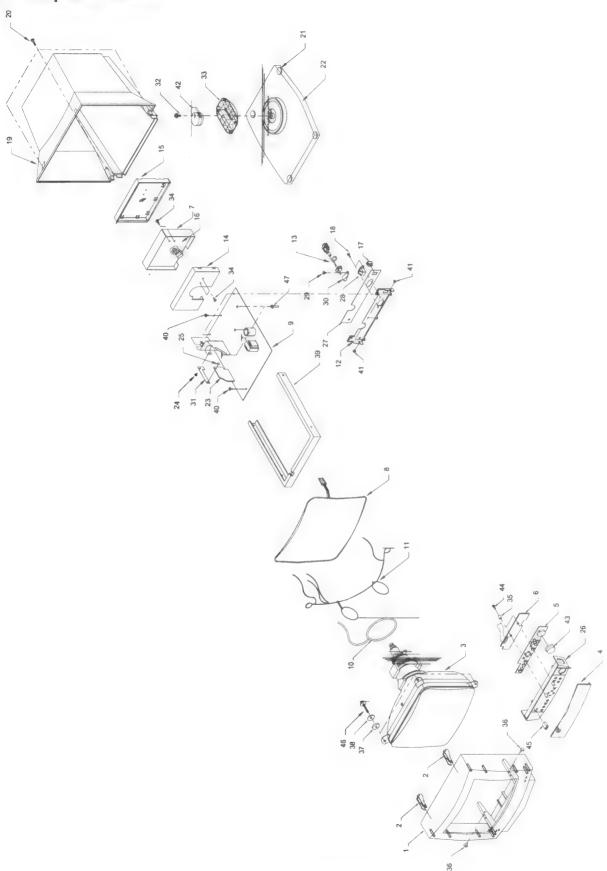


Figure 8-1 Exploded View

8.2. Key to Exploded View

| RE | F. PART NO. | DESCRIPTION |
|----|----------------|--------------------------------------------------------------|
| 1 | 1301017F10 | BEZEL |
| 2 | 1376017F10 | BEZEL BRACKET |
| 3 | 7010019417 | |
| 4 | 1340017F10 | CRT M34KDD50X16(SVK)MACH C460449010 DOOR |
| 5 | 9005097F10 | FUNCTION KEY |
| 6 | SS7F100920 | CONTROL PCB ASS'Y |
| 7 | 2009097F10 | NECK SHIELD |
| 8 | 7020177F10 | DEGAUSSING COIL |
| 9 | RO7F115044-V1 | MAIN PCB ASS'Y |
| 10 | C460670110 | TILT RING WIRE ASS'Y 270mm |
| 11 | C001137F11 | CRT BRIND WIRE ASS'Y |
| 12 | 2002097F10 | CHASSIS REAR |
| 13 | C7107F1020 | I/O CABLE ASS'Y |
| 14 | 2007097F10 | NECK SHIELD(FRONT) |
| 15 | 2009097F10 | NECK SHIELD(BACK) |
| 16 | RO7F100244-V1 | NECK PCB ASS'Y |
| 17 | 4410304020 | POWER SWITCH SJ-W2F4A-07BB |
| 18 | 8024113008 | SCREW STEEL TRI 'B' TAPPING |
| 19 | 1302017F10 | BUCKET |
| 20 | 8433113520 | |
| 21 | 1010094310 | SCREW B/HD M4X16 TAPPING 'P' FOR BUCKET & BEZEL ASS'YX2 FOOT |
| 22 | 1605017F10 | BASE |
| 23 | SS7F100630-404 | LOGIC PCB ASS'Y |
| 24 | 3060040060 | RIVET NYLON 4.0X6.0 FOR FBT COVER & FIXED PLATE |
| 25 | 1013094180 | REVLT +3 FOR LOGIC PCB & FIXED PLATE |
| 26 | 1121017F10 | CONTROL PANEL |
| 27 | 9004097F10 | DECO PLATE(I/O CABLE) |
| 28 | 7067F10122 | LINE FILTER IX-0342-S |
| 29 | 8121144008 | SCREW CAP 'C' M4X8 FOR I/O CABLE |
| 30 | 2017094030 | CLIP CABLE FOR I/O CABLE |
| 31 | 2010191530 | FIXED PLATE |
| 32 | 8135115025 | SCREW CAP HI-LOW TAPPING M5X25 |
| 33 | 1604017F10 | TILT BALL |
| 34 | 8026113008 | SCREW BIND(+) ZINC M3X8 |
| 35 | 36023000U5 | NYLON WASHER(U-5) |
| 6 | 3662300SR4 | PLASTIC PUSH RIVETS SR-4 |
| 7 | 3100452015 | RUBBER WASHER 4.5X20X1.5T |
| 8 | 3111502016 | FLAT WASHER M5 T=1.6 |
| 9 | 2001097F10 | U BRACKET |
| 0 | 8026113008 | SCREW BIND(+) ZINC M3X8 TAPPING FOR U-BKT & MAIN PCBX4 |
| .1 | 8127113006 | SCREW PAN(+)/HD CAP YAPPING M3X6 |

| 42 | 1A100C7F10 | RETAINER |
|----|-------------|--------------------------------------------------|
| 43 | 1360014E10 | CAP |
| 44 | 8418113008 | SCREW BIND(+) TAPPING M3X8 |
| 45 | 1015094610 | DOOR LOCK 4U66 |
| 46 | 8135115025 | SCREW CAP HI-LOW TAPPING |
| 47 | 36523B\$22P | PCB SUPPORT |
| | ADDITIO | DNAL MECHANICAL PARTS NOT SHOWN IN EXPLODED VIEW |
| | 1410004E10 | LENS |
| | 361231503H | LOCK CAP |
| | 4050256455 | RES-CF 1/2W J 560K |
| | 5290003000 | TUBE-SHRINK ID=3 |
| | 5290005000 | TUBE-SHRINK ID=5 |
| | 5541025095 | CABLE TIE 2.5X90 |
| - | 5541025160 | CABLE TIE-BINDING 2.5X160 |
| | 5541036200 | CABLE TIE W=3.6mm L=200mm |
| | C459425101 | GND WIRE ASS'Y 130mm GRN/YEL |
| | C4597F1010 | GND WIRE ASS'Y |
| | C4597F1020 | GND WIRE ASS'Y 100mm |
| | C4607F1010 | WIRE ASS'Y 100mm |

| NOTE OF | PART NO. | NDESERVATION |
|---------|------------|----------------------------|
| X501 | 7150120000 | X'TAL 12MHZ |
| ZD504 | 41205005G1 | DIODE ZENER HZ5C153V-AT |
| ZD505 | 41205005C1 | DIODE ZENER HZSC1 5.1V-AT- |
| ZD506 | 41205005C1 | DIODE ZENER HZ5C1.5.1VAT- |
| Z0507 | 41205005C1 | DIODE ZENER HZSCT & JV AT |
| ZD508\ | 41205004A2 | DIODE ZENER HZ4A2 -AT. |

9.4. Logic Board

| REF | PART NO. | DESCRIPTION |
|--------|-------------------|--------------------------------|
| | SS7F100630
404 | LOGIC PCE ASSY |
| | 4141109100 | #P.C.B. LOGIC |
| | 41597F1002 | FIRMWARE 7F10 REV:2.0 |
| C701 | 7183220556 | CAP-COG 22PFJ 50V CHIP 0805 |
| C702 | 7183220556 | CAP-COG 22PFJ 50V CHIP 0805 |
| C703 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C704 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 080S |
| C706 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C707 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C708 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C709 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C711 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C712 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C713 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C714 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C715 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C717 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C718 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C719 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C720 | 7183102556 | CAP-COG 1000PFJ 50V CHIP 0805 |
| C721 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C722 | 5156109T50 | CAP-EC6 1UFM 50V -RT- |
| C723 | 7146103456 | CAP-Y5V 0.01UFZ 50V CHIP 0805 |
| C724 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C725 _ | 7183101556 | CAP-COG 100PFJ 50V CHIP 0805 |
| C726 | 7183102556 | CAP-COG 1000PFJ 50V CHIP 0805 |
| ¢727 | 5156109T50 | CAP-EC6 1UFM 50V -RT- |
| Ç728 | 5156109T50 | CAP-EC6 1UFM 50V -RT- |
| C729 | 5156470T16 | CAP-EC6 47UFM 16V -RT- |
| C730 | 5156470T16 | CAP-EC6 47UFM 16V -RT- |
| ¢731 | 7144223156 | CAP-X7R 0.022UFK 50V CHIP 0805 |
| 0732 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| C733 | 7146104456 | CAP-Y5V 0.1UFZ 50V CHIP 0805 |
| D701 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D702 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D703 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D704 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D706 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D707 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| 0708 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D709 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D710 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| 0711 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D712 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |
| D713 | 412050051T | DIODE ZENER 5.1V +-5% MLF SMD |
| 0714 | 412050051T | DIODE ZENER 5.1V +-5% MLF SMD |
| D715 | 412014148T | DIODE 1N4148 (BAS32L) MLF SMD |

| | PART NO. | DESCRIPTION |
|-----------|------------|--------------------------------|
| 1C701 | 415980C52T | IC 80C52 V3.5 16MHZ PLCC 44PIN |
| 1C702 | 41592BC64T | IC 28C64 CHIP PLCC 32PIN |
| IC703 | 415507451T | IC 74HC51 SMD CHIP 14PIN |
| IC704 | 415574373T | IC 74HC373 SMD CHIP 20PIN |
| [C705 | 415A74139T | IC 74AC139 SMD 16PIN |
| IC706 | 415574374T | IC 74HC374 SMD CHIP 20PIN |
| IC707 | 415574374T | IC 74HC374 SMD CHIP 20PIN |
| IC708 | 415707486T | IC 74HCT86 SMD CHIP 14PIN |
| IC710 | 415507474T | IC 74HC74 SMD CHIP 14PIN |
| IC713 | 415A07400T | IC 74AC00 SMD 14PIN |
| IC714 | 415A07414T | IC 74AC14 SMD 14PIN |
| IC715 | 415908200T | IC TL082-CD SMD 8PIN |
| IC716 | 415924210T | IC 24LC21 (SOIC) 8PIN |
| P701 | 4492025420 | CONN. 2DP TOP LT-P25420 |
| 21 45/4 4 | | |
| R701 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| R702 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| R703 | 4010118252 | RES-CHIP 1/10W J 1.8K 0805 |
| H704 | 4010168252 | RES-CHIP 1/10W J 6.8K 0805 |
| H705 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| H706 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| A707 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| P708 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| H709 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| F710 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| B711 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| R712 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| R713 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| B714 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R715 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R716 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| R717 | 4010115352 | RES-CHIP 1/10W J 15K 0805 |
| R718 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| R719 | 4010112452 | RES-CHIP 1/10W J 120K 0805 -AT |
| B720 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R721 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| F722 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R723 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| R724 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R725 | 4010122152 | |
| | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R726 | 4010122152 | RES-CHIP 1/10W J 470R 8805 |
| R727 | 1 | |
| R729 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R730 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| P731 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R732 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| F733 | 4010147152 | RES-CHIP 1/10W J 470R 0805 |
| F734 | 4010147252 | RES-CHIP 1/10W J 4.7K 0805 |
| R735 | 4010147252 | RES-CHIP 1/10W J 4.7K 0805 |
| R737 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R738 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| P740 | 4010110452 | RES-CHIP 1/10W J 100K 0805 |
| R741 | 4010110452 | RES-CHIP 1/10W J 100K 0805 |
| R742 | 4010124452 | RES-CHIP 1/10W J 240K 0805 -AT |
| R743 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| P744 | 4010133252 | RES-CHIP 1/10W J 3.3K |
| H745 | 4010122252 | RES-CHIP 1/10W J 2.2K 0805 |
| R746 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| R747 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| | | |
| P(748 | 4010147052 | RES-CHIP 1/10W J 47R 0805 |

| RISE | DIARTAG | ANTESICS INTERN |
|------|------------|----------------------------|
| R751 | 4010110452 | RES-CHIP 1/10W J 100K 0805 |
| R752 | 4010110352 | RES-CHIP 1/10W J 10K 0805 |
| H753 | 4010110252 | RES-CHIP 1/10W J 1K 0805 |
| R760 | 4010115352 | RES-CHIP 1/10W J 15K 0805 |
| H761 | 4010110252 | AES-CHIP 1/10W J 1K 0805 |
| A762 | 4010151252 | RES-CHIP 1/10W J 5.1K 0805 |
| R763 | 4010122152 | RES-CHIP 1/10W J 220R 0805 |
| R764 | 4010133252 | RES-CHIP 1/10W J 3.3K |
| R765 | 4010122152 | RES-CHIP 1/10W J 220H 0805 |
| X701 | 7151474563 | CRYSTAL 14.7456MHZ |

9.5. Control Panel PCB Assembly

| REF PART NO. | DESCRIPTION |
|----------------------|----------------------------------------------------|
| \$\$7F100920
-404 | CONTROL POB ASS'Y |
| 412060023T | LED ROHM SLM-23/M/V R/G CHIP-
SO FOR CONTROLPES |
| 4141109300 | SP.C.B. CONTROL |
| C488201021 | CONN. 20P & WIRE W/CORE ASS'Y |

| HEE. | PART NOW | TEST STEPPENS |
|--------|-------------|--------------------------------|
| RPB | 4050515255 | RES-CF 1/4W J 1.5K SMALL -AT- |
| RP9 | 4050515255 | RES-CF 1/4W J 1.5K SMALL -AT- |
| SK1 | 4490300190 | CONN. 3.96 3P W/O PIN 2 -5F- |
| SK2 | 4490200207 | CONN. 2P WAFER ROUND PIN 10MM |
| T1 | 7066330253 | CHOKE COMMON MODE |
| Ť3 | 7050107F10 | POWER TRANSFORMER |
| T301 | 7050207F10 | DRIVER TRANSFORMER |
| T401 | 7050519000 | FOCUS TRANSFORMER |
| TP1 | 705025423L | DRIVER TRANSFORMER |
| VR1 | 5225150210 | POT(CERMET) 0.3W 5K 6+ LAY-DOV |
| VR301 | 5225150310 | POT(CERMET) 0.3W 50K 6+ LAY-DO |
| VF302 | 5225150410 | POT(CERMET) 0.3W 500K 6+ LAY-D |
| VBP1 | 5225150310 | POT(CERMET) 0.3W 50K 6+ LAY-DO |
| ZDI | 4120502402 | DIODE ZENER 1/2W 24V HZ24-2-A |
| ZOZNA | 4120500152 | DIODE ZENER 14.5-15.1V-AT- |
| ZD3 | 4120512920 | DIODE ZENEH 12V HZ (2B2 -AT- |
| 203074 | 41205001524 | POIODE ZENER 14.5.18 TV -AT- |
| ZD303 | 4120500152 | DIODE ZENER 14.5/15/1V AT |
| ZD305/ | 412055279U | DIODE ZENER INSZ788RL AT |
| Z0305 | 4120511A20 | DIODEZENER HZIJAS AT |
| Z03083 | 4120502200 | DIODE ZENER 227 (IZ22 1 AT) |
| ZD4XX | 205005B2 | DIODE ZENER HZ5E2 AT |
| 208 | 4d 205018CU | DIODE ZENER MIZLISC AT |
| ZOPICZ | 4120500152 | DICIDEZENER (4.5-15 V. AT |

9.3. Neck Board

| REE | PARTINO | DESCRIPTION |
|-----------|---------------------|--------------------------------------------------------------------------|
| | 8 9/2 (19/A) vi | NECKECH ASS Y |
| | 2009091530 | HEAT SINK FOR IC501 |
| | 2009097£10 | NECK SHIELD |
| | 3011100030 | NUT ISO HEX M3 Z1NC FOR IC501 |
| \$ | 4141108401 | PRICAR MIDEO (36X12John) |
| | 8026113008 | SCREW BID(+) ZINC M3X8 TAPPING FOR VIDEO SHIELD (FRONT) & HEAT SINK ASSY |
| | 8504113010 | SCREW BIND(+) M3X10 MACH
W/DIS FOR IC501 |
| BP501 | 3340230165 | BEAD PIN 16.5X2.3+ |
| BP502 | 3340230165 | BEAD PIN 16.5X2.3+ |
| C501 | 5156100T50 | CAP-EC6 10UFM 50V -RT- |
| C502 | 5156100 <u>T5</u> 0 | CAP-EC6 10UFM 50V -RT- |
| C503 | 5156100T50 | CAP-EC6 10UFM 50V -RT- |
| C504 | 5156109T50 | CAP-EC8 1UFM 50V -RT- |
| C505 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C506 | 5134104452 | GAP-SCF 0.1UFZ 50V -RT- |
| C507 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C508 | 5134104452 | GAP-SCF 0.1UFZ 50V -RT- |
| C509 | 515X100T50 | CAP-ECX 10UFM 50V -RT- |
| C510 | 515X109T50 | CAP-ECX 1UFM 50V -RT- |
| C511 | 515X100T50 | CAP-ECX 10UFM 50V -RT- |
| C512 | 5075104501 | CAP-MEF 0.1UFJ 100V CF |
| C513 | 5075104501 | GAP-MEF 0.1UFJ 100V CF |
| C514 | 5156109T50 | CAP-EC6 1UFM 50V -RT- |
| C515 | 7140104214 | CAP-X7R 0.1UFM 100V -RT- |
| C516 | 5156102\$18 | CAP-EC6 1000UFM 16V -SF- |
| C517 | 5156109T09 | CAP-EC6 1UFM 350V 8+ -RT- |
| C51B | 5074104102 | CAP-MEF 0.1UFK 250V -SF- |
| C519 | 515X470S01 | CAP-ECX 47UFM 100V -SF- |

| plan (| PRINCIPLE | GESER PINOR |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C520 | 5156100T50 | CAP-ECB 10UFM 50V -RT- |
| C521 | 5121470552 | CAP-CCCH 47PFJ 50V -RT- |
| C522 | 5121470552 | CAP-CCCH 47PFJ 50V -RT- |
| C523 | 5075104501 | CAP-MEF 0.1UFJ 100V CF |
| C524 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C525 | 5121101552 | CAP-CCCH 100PFJ 50V -RT- |
| C526 | 5101102152 | CAP-CCB 1000PFK 50V -RT- |
| C527 | 5101331132 | CAP-CCB 330PFK 1KV -AT- |
| C529 | 51041D3463 | CAP-CCF 0.01UFZ 1.5KV -SF- |
| C530 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C531 | 5121330552 | CAP-CCCH 33PFJ 50V -RT- |
| | 5074104101 | CAP-MEF 0.1UFK 100V -SF- |
| C532 | | |
| C533 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C534 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C535 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C536 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C537 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C538 | 515X109T50 | CAP-ECX 1UFM 50V -RT- |
| C539 | 5103103212 | CAP-CCE 0.01UFM 100V -RT- |
| C540 | 5103103212 | CAP-CCE 0.01UFM 100V -RT- |
| C541 | 5103103212 | CAP-CCE 0.01UFM 100V -RT- |
| C542 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C543 | 5074104102 | CAP-MEF 0.1UFK 250V -SF- |
| C544 | 7140104214 | CAP-X7R 0.1UFM 100V -RT- |
| C546 | 5121270552 | CAP-CCCH 27PFJ 50V -RT- |
| C547 | 5121270552 | CAP-CCCH 27PFJ 5DV -RT- |
| C548 | 5121270552 | CAP-CCCH 27PFJ 50V -RT- |
| C549 | 515X101T16 | CAP-ECX 100UFM 16V -RT- |
| C550 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C551 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C552 | | CAP-CCB 2200PFK 50V -RT- |
| C553 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C554 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| CRT501 | | SOCKET CRT HPS0380-01-110 |
| D501 | 4120141480 | DIODE-IN4148 (SI)-AT- |
| D502 | 4120141480 | DIODE IN4148 (SI) -AT- |
| D50303 | 4120141460 | DIODE IN4 (48 (SI) SAT |
| | Contract of State of the | DIODE IN4148 (SI) AT |
| DS08 / | #120141480° | DIODE 1N4148 (SI) AT |
| D513 | 4120141480 | DIODE:TN4148:(SI) -AT |
| | 4120141480 | DIODE IN4148 (SI) AT |
| 0514 | | DIODE IN4148 (SI) AT |
| D515 () | 4120141480
413252020U | |
| D516 | THE PARTY OF PARTY OF THE PARTY | The state of the s |
| D517 | -413258020U | DIODE BAY20 DO:35. AT |
| 305/B | 413259020U | DIODE BAV20 DO 35 AT |
| 805) (F | 4120141480 | DIODE: N4148 (SI) -AT |
| D520 | 4120146060 | DIODE IN4606 (SI) -AT |
| D521 | 1 415943100A | IC TE431 REGULATOR TO 92 ST |
| D522 | 413258020U | DIODE BAV20 DO 35 AT |
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| D524 | 4132560200 | DIODE BAV20 DO-35 -AT- |
| D525 | 413010428C | DIODE BYV26C KINK FORMING AT |
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| 7 | 41201414804 | DIODE 1N4148 (SI) -AT |
| D627 | The second second | |
| THE PERSON NAMED IN | 4.120141480 | DIODE IN4148 (SI) -AT |
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| R504 | | | -+- | | | | SMALL - |
| R505 | 1 | 050510155 | | | | 100R -AT- | |
| R506 | - 00 | 257047509 | F | HES-P | R MF 1/41 | <u> </u> | AT SMALL |
| - | | 257047509 | F | RES-P | R MF 1/4 | N F 75R A | TSMALL |
| R507 | | 257042209 | | | | | MALL -AT |
| R508 | | 50510155 | F | ìES-Ç | F 1/4/W J | 100R-AT- | SMALL |
| RSDA | | 50547255 | | | | 4.7K -AT- | |
| R50B | 4(| 50510055 | F | ES-CI | 1/4W J | 10R -AT- 5 | SMALL |
| 有缺乏 | | | 9.8 | F8.0 | UWAJU | SW SMA | |
| R500 | 40 | 50510355 | P | EŞ-ÇF | 1/4W J 1 | OK -AT- S | SMALL. |
| R510 | 40 | 50547255 | R | ES-ÇF | 1/4W J 4 | .7K -AT- | SMALL |
| R511 | 42 | 57041003 | F | ES-PF | MF 1/4W | F 100K | AT SMALL |
| R513 | 40 | 50539255 | R | ES-CF | 1/4W J 3 | .9K -AT- 8 | SMALL . |
| R514 | 40 | 50530055 | P | ES-CF | 1/4W J 3 | OR SMAL | L -AT- |
| PS15 | 40: | 50527255 | | | | 7K -AT- S | |
| R516 | 40 | 50539255 | | | | .9K -AT- 8 | |
| \$ 851836 | | 05 (GSS) | | | | M. AT. SI | AALL |
| R519 | 425 | 7047502 | RE | ES-PR | MF 1/4W | F 75K SN | AALL -AT |
| R520 | 405 | 0582355 | | | | 2K -AT- SI | |
| FI521 | 405 | 0510055 | | | | OR -AT- SI | |
| R522 | 425 | 7048251 | | | | F 8.25K A | |
| R523 | 425 | 7042151 | RE | S-PR | MF 1/4W | F 2.15K A | TSMAL |
| R524 | 405 | 0510155 | RE | S-CF | 1/4W J 16 | WR -AT- 5 | TIAMS |
| P525 | 405 | 0539155 | RE | S-ÇF | 1/4W J 39 | OR -AT- S | SMALL |
| R526 | 405 | 0510155 | RE | 5-CF | 1/4W J 10 | OR -AT- S | MALL |
| R527 | 405 | 0539155 | | | | OR AT- S | |
| R528 | | 0510155 | | | | OR -AT- S | |
| R529 | | 0539155 | | | | OR -AT- S | |
| F630 | 1.160 CF | | | | | hote made the | Control of the Contro |
| R531 | | 547355 | | - | /AW 147 | K-AT- SN | 1014 |
| R532 | | 522355 | | | | K SMALL | |
| | - | 539255 | RE | S-CE 1 | MAL LD A | K-AT-SI | -AI- |
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| R534 | RE | | PARTNO | 1 1 1 | DESCRIPTION |
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| R535 | | | | _ | |
| R536 4050547355 RES-CF 1/4W J 47K -AT - SMALL R538 4050539255 RES-CF 1/4W J 100P -AT - SMALL R539 4050510155 RES-CF 1/4W J 100P -AT - SMALL R541 4050522355 RES-CF 1/4W J 22K SMALL -AT - R542 4050547355 RES-CF 1/4W J 47K -AT - SMALL R541 4050522355 RES-CF 1/4W J 47K -AT - SMALL R543 4050515255 RES-CF 1/4W J 47K -AT - SMALL R543 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R544 4050547255 RES-CF 1/4W J 1.5K SMALL -AT - R546 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R547 4050522355 RES-CF 1/4W J 1.5K SMALL -AT - R548 4050512655 RES-CF 1/4W J 1.5K SMALL -AT - R549 4050522355 RES-CF 1/4W J 1.5K SMALL -AT - R549 4050522355 RES-CF 1/4W J 1.5K SMALL -AT - R550 4050510255 RES-CF 1/4W J 1.5K SMALL -AT - R550 4050510255 RES-CF 1/4W J 1.5K SMALL -AT - R550 4050510255 RES-CF 1/4W J 1.5K SMALL -AT - R550 4050510255 RES-CF 1/4W J 1.5K SMALL -AT - R551 4050547255 RES-CF 1/4W J 1.5K SMALL -AT - R552 4050540355 RES-CF 1/4W J 1.5K SMALL -AT - R552 4050540355 RES-CF 1/4W J 10K -AT - SMALL R553 4050510355 RES-CF 1/4W J 10K -AT - SMALL R554 4050510355 RES-CF 1/4W J 10K -AT - SMALL R556 4050510355 RES-CF 1/4W J 10K -AT - SMALL R556 4050510355 RES-CF 1/4W J 10K -AT - SMALL R556 4050510355 RES-CF 1/4W J 10K -AT - SMALL R557 4050510355 RES-CF 1/4W J 10K -AT - SMALL R558 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050520351 RES-CF 1/4W J 10K -AT - SMALL R559 4050520255 RES-CF 1/4W J 10K -AT - SMALL R559 4050520351 RES-CF 1/4W J 10K -AT - SMALL R559 4050520255 RES-CF 1/4W J 10K -AT - SMALL R560 4050510155 RES-CF 1/4W J 10K -AT - SMALL R560 4050510155 RES-CF 1/4W J 10K -AT - SMALL R560 4050520255 RES-CF 1/4W J 10K -AT - SMALL R560 4050510155 RES-CF 1/4W J 10K -AT - SMALL R570 4050520255 RES-CF 1/4W J 10K -AT - SMALL R570 4050520255 RES-CF 1/4W J 10K -AT - SMALL R571 40505202255 RES-CF 1/4W J 10K -AT - SMALL R571 405052022 | R5: | 35 | | | BESICE 1/4W LOOK ON THE |
| R537 406051055 RES-CF 1/4W J 3.9K -AT- SMALL R538 4060539285 RES-CF 1/4W J 100R -AT- SMALL R549 4050510155 RES-CF 1/4W J 4.7K -AT- SMALL R541 4050522355 RES-CF 1/4W J 4.7K -AT- SMALL R543 4050512255 RES-CF 1/4W J 4.7K -AT- SMALL R544 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R545 4050543255 RES-CF 1/4W J 4.7K -AT- SMALL R546 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R547 4050522455 RES-CF 1/4W J 2.2K SMALL -AT- R548 4050512255 RES-CF 1/4W J 2.2K SMALL -AT- R549 4050512255 RES-CF 1/4W J 2.2K SMALL -AT- R549 4050512355 RES-CF 1/4W J 2.2K SMALL -AT- R549 4050512355 RES-CF 1/4W J 2.2K SMALL -AT- R550 4060510255 RES-CF 1/4W J 2.2K SMALL -AT- R550 4060510255 RES-CF 1/4W J 1.5K SMALL -AT- R551 4050547255 RES-CF 1/4W J 1.2K -AT- SMALL R552 4060547255 RES-CF 1/4W J 1.5K SMALL -AT- R554 4050510355 RES-CF 1/4W J 1.5K SMALL -AT- R555 4050510355 RES-CF 1/4W J 1.5K SMALL -AT- R556 4050510355 RES-CF 1/4W J 1.5K SMALL -AT- R558 4050510355 RES-CF 1/4W J 1.6K -AT- SMALL R558 4050510355 RES-CF 1/4W J 10K -AT- SMALL R559 4050510355 RES-CF 1/4W J 10K -AT- SMALL R560 4050510155 RES-CF 1/4W J 10K -AT- SMALL R561 4050510355 RES-CF 1/4W J 10K -AT- SMALL R562 4060210115 RES-CC 1/2W K 100R -AT- R563 4060210115 RES-CC 1/2W K 100R -AT- R564 405025255 RES-CF 1/4W J 10K -AT- SMALL R579 405051255 RES-CF 1/4W J 10K -AT- SMALL R579 405052255 RES-CF 1/4W J 1.5K SMALL -AT- R579 405051255 RES-CF 1/4W J 1.5K SMALL -AT- R588 405051055 RES-CF 1/4W J 1.5K SMALL -AT- R588 40505105 | R5: | 36 | | | BES-CE 1/4/4/ LAZK AT COMMISSION |
| R538 4050539255 RES-CF 1/4W J 39K -AT- SMALL R549 4050510155 RES-CF 1/4W J 22K SMALL -AT- R549 4050547355 RES-CF 1/4W J 22K SMALL -AT- R543 4050515255 RES-CF 1/4W J 4.7K -AT- SMALL R544 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R545 4050515255 RES-CF 1/4W J 4.7K -AT- SMALL R546 4050515255 RES-CF 1/4W J 4.7K -AT- SMALL R547 4050522455 RES-CF 1/4W J 22K SMALL -AT- R548 4050522455 RES-CF 1/4W J 22K SMALL -AT- R549 4050522355 RES-CF 1/4W J 22K SMALL -AT- R549 4050522355 RES-CF 1/4W J 22K SMALL -AT- R549 4050512255 RES-CF 1/4W J 12K -AT- R540 4050510255 RES-CF 1/4W J 12K -AT- R541 4050547255 RES-CF 1/4W J 12K -AT- R542 4050547255 RES-CF 1/4W J 1/2K -AT- R543 4050510255 RES-CF 1/4W J 1/2K -AT- R544 4050547255 RES-CF 1/4W J 1/2K -AT- R545 4050510355 RES-CF 1/4W J 1/2K -AT- R546 4050510355 RES-CF 1/4W J 1/2K -AT- R547 4050510355 RES-CF 1/4W J 1/2K -AT- R548 4050510355 RES-CF 1/4W J 1/2K -AT- R549 4050510355 RES-CF 1/4W J 1/2K -AT- R540 4050510155 RES-CF 1/4W J 1/2K -AT- R541 4050522255 RES-CF 1/4W J 1/2K -AT- R541 4050522255 RES-CF 1/4W J 1/2K -AT- R541 4050522255 RES-CF 1/4W J 1/2K -AT- R541 4050510255 RES-CF 1/4W J | R5 | 2 | Land St. Co. Co. Co. Co. Co. Co. | 200 | RES CP TAME LAW AS STATE |
| R539 | R53 | 38 | | _ | THE OTHER DESIGNATIONS OF THE PERSON OF THE |
| R541 4050522355 RES-CF 1/4W J 22K SMALL -AT. R541 4050547355 RES-CF 1/4W J 1.5K SMALL -AT. R543 4050547255 RES-CF 1/4W J 1.5K SMALL -AT. R544 4050547255 RES-CF 1/4W J 1.5K SMALL -AT. R545 4050543255 RES-CF 1/4W J 1.5K SMALL -AT. R545 4050543255 RES-CF 1/4W J 1.5K SMALL -AT. R545 4050515255 RES-CF 1/4W J 1.5K SMALL -AT. R546 4050515255 RES-CF 1/4W J 1.5K SMALL -AT. R547 4050522355 RES-CF 1/4W J 2.2K SMALL -AT. R549 4050512355 RES-CF 1/4W J 2.2K SMALL -AT. R549 4050512355 RES-CF 1/4W J 1.5K SMALL -AT. R549 405051255 RES-CF 1/4W J 1.5K -AT. SMALL R551 4050547255 RES-CF 1/4W J 1.5K -AT. SMALL R552 4050547255 RES-CF 1/4W J 1.5K -AT. SMALL R553 4050510355 RES-CF 1/4W J 1.5K -AT. SMALL R554 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R554 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R557 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R557 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R558 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R559 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R559 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R559 4050510355 RES-CF 1/4W J 1.0K -AT. SMALL R561 4060210115 RES-CF 1/2W J 1.0K -AT. SMALL R561 4060210115 RES-CC 1/2W K 1.00R -AT. R562 4060210115 RES-CC 1/2W K 1.00R -AT. R564 405023155 RES-CF 1/4W J 1.0K -AT. SMALL R561 4060210115 RES-CC 1/2W K 1.00R -AT. R564 405023155 RES-CF 1/4W J 1.0K -AT. SMALL R561 4060210115 RES-CC 1/2W K 1.00R -AT. R562 4060210115 RES-CC 1/2W K 1.00R -AT. R564 4050251355 RES-CF 1/4W J 1.5K -AT. SMALL R571 405052255 RES-CF 1/4W J 1.5K -AT. SMALL R573 4050510355 RES-CF 1/4W J 1.5K -AT. SMALL R573 4050510355 RES-CF 1/4W J 1.5K -AT. SMALL R573 4050512355 RES-CF 1/4W J 1.5K -AT. SMALL R574 4050522255 RES-CF 1/4W J 1.5K -AT. SMALL R574 4050522255 RES-CF 1/4W J 1.5K -AT. SMALL R574 4050522255 RES-CF 1/4W J 1.5K -AT. SMALL R574 4050512355 RES-CF 1/4W J 1.5K SMALL -AT. R574 4050512355 RES-CF 1/4W J 1.5K SMALL -AT. R584 4050515255 RES- | A53 | 19 | | | BES-CE 1/4W LIDOR AT CHILL |
| R541 | R54 | 9 | CONTRACTOR OF THE PARTY OF THE | The same of | BES-CRIMINATED AT ALL |
| R542 4050547365 RES-CF 1/4W J 47K -AT - SMALL R543 4050519255 RES-CF 1/4W J 1.5K SMALL -AT R544 4050549255 RES-CF 1/4W J 1.5K SMALL -AT R546 4050516255 RES-CF 1/4W J 1.5K SMALL -AT R546 4050522455 RES-CF 1/4W J 1.5K SMALL -AT R546 4050522455 RES-CF 1/4W J 2.2K SMALL -AT R548 4050522355 RES-CF 1/4W J 2.2K SMALL -AT R549 4050510255 RES-CF 1/4W J 2.2K SMALL -AT R549 4050510255 RES-CF 1/4W J 1.5K SMALL -AT R550 4050510255 RES-CF 1/4W J 1.5K -AT - SMALL R551 4050547255 RES-CF 1/4W J 1.5K -AT - SMALL R552 4050547255 RES-CF 1/4W J 1.5K -AT - SMALL R553 4050510255 RES-CF 1/4W J 1.5K -AT - SMALL R554 4050510355 RES-CF 1/4W J 1.5K -AT - SMALL R554 4050510355 RES-CF 1/4W J 10K -AT - SMALL R556 4050510355 RES-CF 1/4W J 10K -AT - SMALL R557 4050510355 RES-CF 1/4W J 10K -AT - SMALL R558 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050510355 RES-CF 1/4W J 10K -AT - SMALL R560 4050510355 RES-CF 1/4W J 10K -AT - SMALL R560 4050510355 RES-CF 1/4W J 10K -AT - SMALL R560 4050510155 RES-CF 1/4W J 10K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.5K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.5K -AT - SMALL R560 4050510155 RES-CC 1/2W K 100R -AT R562 4060210115 RES-CC 1/2W K 100R -AT R562 4060210115 RES-CC 1/2W K 100R -AT R563 4050239155 RES-CF 1/4W J 3.2K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R560 4050510155 RES-CC 1/2W K 100R -AT R562 4060210115 RES-CC 1/2W K 100R -AT R563 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R560 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R570 4050510155 RES-CF 1/4W J 3.2K -AT - SMALL R571 4050522255 RES-CF 1/4W J 3.2K -AT - SMALL R571 4050522255 RES-CF 1/4W J 3.5K SMALL -AT R572 4050518155 RES-CF 1/4W J 3.5K SMALL -AT R573 405051835 RES-CF 1/4W J 3.5K SMALL -AT R574 4050518255 RES-CF 1/4W J 3.5K SMALL -AT R578 4050518255 RES-CF 1/4W J 3.5K SMALL -AT R588 4050 | R54 | 1 | | | RES.CE 1/4W LOOK CHARLE |
| R543 | R54 | 2 | | _ | BES-CE 1/4W 147K AT CHAN |
| R694 4080547285 RES-CF 1/4W J 4.7K -AT- SMALL R646 4090516285 RES-CF 1/4W J 1.5K SMALL -AT- R547 4060522385 RES-CF 1/4W J 22K SMALL -AT- R548 4050522385 RES-CF 1/4W J 22K SMALL -AT- R549 4050510285 RES-CF 1/4W J 1/K -AT- SMALL R550 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R552 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R553 4050510355 RES-CF 1/4W J 1.5K SMALL -AT- R544 4050510355 RES-CF 1/4W J 1.0K -AT- SMALL R556 4050510355 RES-CF 1/4W J 1.0K -AT- SMALL R557 4050510355 RES-CF 1/4W J 10K -AT- SMALL R558 4050510355 RES-CF 1/4W J 10K -AT- SMALL R559 4050510355 RES-CF 1/4W J 10K -AT- SMALL R559 4050530255 RES-CF 1/4W J 10K -AT- SMALL R559 4050530255 RES-CF 1/4W J 10K -AT- SMALL R559 4050530255 RES-CF 1/4W J 10K -AT- SMALL R559 4050510155 RES-CF 1/4W J 10R -AT- SMALL R560 4050510155 RES-CF 1/4W J 10R -AT- SMALL R561 4060210115 RES-CC 1/2W K 100R -AT- R562 4060210115 RES-CC 1/2W K 100R -AT- R563 4060210115 RES-CC 1/2W K 100R -AT- R564 4050239155 RES-CF 1/4W J 390R -AT- SMALL R568 40505082256 RES-CF 1/4W J 305 -AT- SMALL R568 40505082256 RES-CF 1/4W J 22K -AT- SMALL R569 4050510355 RES-CF 1/4W J 305 -AT- SMALL R569 4050510355 RES-CF 1/4W J 32K -AT- SMALL R570 4050510355 RES-CF 1/4W J 22K -AT- SMALL R571 4050522255 RES-CF 1/4W J 1/4W R 2.2K AT- SMALL R572 4050512355 RES-CF 1/4W J 1/4W R 2.2K AT- SMALL R573 4050518456 RES-CF 1/4W J 1/4W R-AT- SMALL R573 4050518255 RES-CF 1/4W J 1/4W R-AT- SMALL R573 4050518255 RES-CF 1/4W J 1/4W R-AT- SMALL R584 4050518255 RES-CF 1/4W J 1/4W R-AT- SMALL R584 4050518255 RES-CF 1/4W J 1/4W R-AT- SMALL R584 | R54 | 3 | 405051525 | 5 | |
| R546 4050519255 RES-CF 1/4W J 1.5K SMALL -AT- R547 4050522455 RES-CF 1/4W J 22K SMALL -AT- R548 4050522455 RES-CF 1/4W J 22K SMALL -AT- R549 4050522355 RES-CF 1/4W J 22K SMALL -AT- R549 4050512255 RES-CF 1/4W J 12K -AT- R549 4050512255 RES-CF 1/4W J 1K -AT- SMALL R551 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R551 4050547255 RES-CF 1/4W J 1.5K SMALL -AT- R553 4050513255 RES-CF 1/4W J 1.5K SMALL -AT- R554 4050510355 RES-CF 1/4W J 1.5K SMALL -AT- R555 4050510355 RES-CF 1/4W J 10K -AT- SMALL R556 4050510355 RES-CF 1/4W J 10K -AT- SMALL R557 4050510355 RES-CF 1/4W J 10K -AT- SMALL R558 4050510355 RES-CF 1/4W J 10K -AT- SMALL R559 4050510355 RES-CF 1/4W J 10K -AT- SMALL R559 4050510355 RES-CF 1/4W J 10K -AT- SMALL R550 4050510355 RES-CF 1/4W J 10K -AT- SMALL R550 4050510355 RES-CF 1/4W J 10K -AT- SMALL R551 A050510355 RES-CF 1/4W J 10K -AT- SMALL R552 4050510355 RES-CF 1/4W J 10K -AT- SMALL R553 4050510355 RES-CF 1/4W J 10K -AT- SMALL R560 4050510155 RES-CC 1/2W K 100R -AT- R561 4060210115 RES-CC 1/2W K 100R -AT- R562 4060210115 RES-CC 1/2W K 100R -AT- R563 4050210115 RES-CC 1/2W K 100R -AT- R564 4050239155 RES-CF 1/4W J 3.2K -AT- SMALL R564 4050239155 RES-CF 1/4W J 3.2K -AT- SMALL R565 4050522155 RES-CF 1/4W J 3.2K -AT- SMALL R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R571 405052255 RES-CF 1/4W J 3.2K -AT- SMALL R572 405052255 RES-CF 1/4W J 3.2K -AT- SMALL R573 4050519456 RES-CF 1/4W J 2.2K -AT- SMALL R574 405052255 RES-CF 1/4W J 2.2K -AT- SMALL R576 4050519456 RES-CF 1/4W J 2.2K -AT- SMALL R577 405052255 RES-CF 1/4W J 3.2K -AT- SMALL R578 4050515255 RES-CF 1/4W J 3.2K -AT- SMALL R579 4050515255 RES-CF 1/4W J 3.5K SMALL -AT- R578 4050515255 RES-CF 1/4W J 3.5K SMALL -AT- R578 4050515255 RES-CF 1/4W J 3.5K SMALL -AT- R588 4050515255 RES-CF 1/4W J 3.5K SMALL -AT- R589 4050515355 RES-CF 1/4W J 3.5K SMALL -AT- R589 4050515355 RES-CF 1/4W J 3.5K SMALL -AT- R589 4050515355 RES-CF 1/4 | R54 | 4 | 405054725 | 5 | HES-CF 1/4M LAZK AT CALAL |
| R546 | R54. | 5 | 405054325 | 5 | BES-CF 1/4W LARK SMALL AT |
| R549 | R54i | 6 | 405051525 | 5 | RES-CF 1/4W J 1 5K SMALL AT |
| R549 | R54 | 7 | 405052245 | 5 | RES-CF 1/4W J 220K SMALL AT |
| R549 | R548 | 9 | 4050522359 | 5 | RES-CF 1/4W 122K SMALL AT |
| R550 | R549 | 9 | 4050212358 | 5 | |
| R551 | A556 |) | 405051025 | 5 | |
| R592 4050547255 RES-CF 1/4W J 4.7K - AT - SMALL R593 4050515255 RES-CF 1/4W J 1.5K SMALL - AT - R564 4050510355 RES-CF 1/4W J 10K - AT - SMALL R556 4050510355 RES-CF 1/4W J 10K - AT - SMALL R557 4050510355 RES-CF 1/4W J 10K - AT - SMALL R558 4050510355 RES-CF 1/4W J 10K - AT - SMALL R558 4050510355 RES-CF 1/4W J 10K - AT - SMALL R559 4050539255 RES-CF 1/4W J 10K - AT - SMALL R560 4050510155 RES-CF 1/4W J 10K - AT - SMALL R561 4060210115 RES-CC 1/2W K 100R - AT - R562 4060210115 RES-CC 1/2W K 100R - AT - R563 4060210115 RES-CC 1/2W K 100R - AT - R564 4060210115 RES-CC 1/2W K 100R - AT - R565 4060210115 RES-CC 1/2W K 100R - AT - R565 4060210115 RES-CC 1/2W K 100R - AT - R568 4050682255 RES-CF 1/4W J 390R - AT - R569 4050522155 RES-CF 1/4W J 2.2K - AT - SMALL R570 4050512155 RES-CF 1/4W J 2.2K - AT - SMALL R571 4050522255 RES-CF 1/4W J 2.2K - AT - SMALL R572 4050522255 RES-CF 1/4W J 2.2K - AT - SMALL R574 4050522255 RES-CF 1/4W J 2.2K - AT - SMALL R575 4060251315 RES-CF 1/4W J 2.2K - AT - SMALL R576 4060251315 RES-CF 1/4W J 2.2K - AT - SMALL R577 4050522255 RES-CF 1/4W J 2.2K - AT - SMALL R578 4060252255 RES-CF 1/4W J 2.2K - AT - SMALL R579 4050512255 RES-CF 1/4W J 2.2K - AT - SMALL R579 4050512255 RES-CF 1/4W J 2.2K - AT - SMALL R578 4060522255 RES-CF 1/4W J 2.2K - AT - SMALL R580 4050512255 RES-CF 1/4W J 1.5K SMALL - AT - R582 4050515255 RES-CF 1/4W J 1.5K SMALL - AT - R582 4050515255 RES-CF 1/4W J 1.5K SMALL - AT - R582 4050515255 RES-CF 1/4W J 1.5K SMALL - AT - R584 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL - AT - R586 4050156255 RES-C | R551 | | | | RES-CF 1/4W 14 7K AT PLANT |
| R553 4050515255 RES-CF 1/4W J 10K AT: SMALL AT: R554 4050510355 RES-CF 1/4W J 10K AT: SMALL R555 4050510355 RES-CF 1/4W J 10K AT: SMALL R556 4050510355 RES-CF 1/4W J 10K AT: SMALL R557 4050510355 RES-CF 1/4W J 10K AT: SMALL R557 4050510355 RES-CF 1/4W J 10K AT: SMALL R559 4050510355 RES-CF 1/4W J 10K AT: SMALL R550 4050510155 RES-CF 1/4W J 10K AT: SMALL R560 4050510155 RES-CF 1/4W J 10K AT: SMALL R561 4060210115 RES-CF 1/4W J 10K AT: SMALL R562 4060210115 RES-CF 1/4W J 10K AT: SMALL R563 4060210115 RES-CC 1/2W K 100R AT: SMALL R563 4060210115 RES-CC 1/2W K 100R AT: R564 4050239155 RES-CC 1/2W K 100R AT: R564 4050239155 RES-CC 1/2W K 100R AT: R566 4257042201 RES-CF 1/4W J 390R AT: R566 4257042201 RES-CR 1/4W J 2.2K AT: SMALL R568 4050582255 RES-CF 1/4W J 2.2K AT: SMALL R568 4050582255 RES-CF 1/4W J 2.2K AT: SMALL AT: R571 4050522255 RES-CF 1/4W J 2.2K AT: SMALL R573 4050522255 RES-CF 1/4W J 2.2K AT: SMALL R574 R675 4050522255 RES-CF 1/4W J 2.2K AT: SMALL R574 R675 4050522255 RES-CF 1/4W J 2.2K AT: SMALL R574 R675 4050522255 RES-CF 1/4W J 2.2K AT: SMALL R574 R680 4050515355 RES-CF 1/4W J 1. | R552 | 1 . | 1050547255 | | RES-CF 1/4W 14 7K AT CNALL |
| R554 4050510355 RES-CF 1/4W J 10K -AT - SMALL R556 4050510355 RES-CF 1/4W J 10K -AT - SMALL R557 4050510355 RES-CF 1/4W J 10K -AT - SMALL R558 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050539255 RES-CF 1/4W J 10K -AT - SMALL R559 4050539255 RES-CF 1/4W J 10K -AT - SMALL R560 4050510155 RES-CF 1/4W J 10K -AT - SMALL R561 4060210115 RES-CC 1/2W K 100R -AT - SMALL R563 4060210115 RES-CC 1/2W K 100R -AT - R564 4060210115 RES-CC 1/2W K 100R -AT - R564 4050239155 RES-CF 1/2W J 390R -AT - R565 4060210115 RES-CC 1/2W K 100R -AT - R566 4257042201 RES-CF 1/2W J 390R -AT - R566 4257042201 RES-PR MF 1/4W F 2.2K AT - SMALL R570 4050522555 RES-CF 1/4W J 2.2K -AT - SMALL R570 4050522555 RES-CF 1/4W J 2.2K -AT - SMALL R571 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R572 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R573 4050518456 RES-CF 1/4W J 2.2K -AT - SMALL R574 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R576 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R576 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R577 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R578 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R579 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R578 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R581 405051255 RES-CF 1/4W J 2.2K -AT - SMALL R581 405051255 RES-CF 1/4W J 1.5K SMALL -AT - R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R584 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R584 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL -AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL -AT - R586 4050156255 RES-CF 1/4W J 1.5K SMALL -AT - R589 4050510155 RES-CF 1/4W J 1.5K -AT - SMALL R589 4050510155 RES-CF 1/4W J 1.00R -AT - SMALL R599 4050510155 RES-CF 1/4W J 1.00R -AT - SMALL R599 4050510155 RES-CF 1/4W J 1.00R -AT - SMALL R599 4050510155 RES-CF 1/4W J 1.00R -AT | R553 | | | _ | RES-CF 1/4W L1 SK SMALL AT |
| R655 4050510355 RES-CF 1/4W J 10K -AT - SMALL R556 4050510355 RES-CF 1/4W J 10K -AT - SMALL R557 4050510355 RES-CF 1/4W J 10K -AT - SMALL R558 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050539255 RES-CF 1/4W J 10GR -AT - SMALL R560 4050510155 RES-CC 1/2W K 100R -AT - SMALL R561 4060210115 RES-CC 1/2W K 100R -AT - SMALL R562 4060210115 RES-CC 1/2W K 100R -AT - SMALL R563 4060210115 RES-CC 1/2W K 100R -AT - SMALL R564 4050239155 RES-CF 1/4W J 39CR -AT - SMALL R565 4050239155 RES-CF 1/4W J 39CR -AT - SMALL R568 4050582255 RES-CF 1/4W J 3 2CK -AT - SMALL R569 4050582255 RES-CF 1/4W J 150R SMALL -AT - SMALL R570 4050513155 RES-CF 1/4W J 2 2K -AT - SMALL R571 4050522255 RES-CF 1/4W J 180K SMALL -AT - SMALL R572 4050522255 RES-CF 1/4W J 2 2K -AT - SMALL R573 405051335 RES-CF 1/4W J 2 2K -AT - SMALL R575 4050 | H554 | | | _ | RES-CF 1/4W LIOK AT PARALL |
| Resolution | R555 | | | - | RES-CF 1/4W J 10K -AT CMALL |
| R557 4050510355 RES-CF 1/4W J 10K -AT - SMALL R558 4050510355 RES-CF 1/4W J 10K -AT - SMALL R559 4050539255 RES-CF 1/4W J 3.9K -AT - SMALL R560 4050510155 RES-CC 1/2W K 100R -AT - SMALL R561 4060210115 RES-CC 1/2W K 100R -AT - SMALL R562 4060210115 RES-CC 1/2W K 100R -AT - SMALL R563 4060210115 RES-CC 1/2W K 100R -AT - SMALL R564 405023915S RES-CF 1/2W J 390R -AT - SMALL R565 4060210115 RES-CC 1/2W K 100R -AT - SMALL R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R568 4050582255 RES-CF 1/4W J 220R SMALL -AT - SMALL R570 4050515156 RES-CF 1/4W J 220R SMALL -AT - SMALL R571 4060522255 RES-CF 1/4W J 2.2K -AT - SMALL R572 405052255 RES-CF 1/4W J 2.2K -AT - SMALL R573 4050518456 RES-CF 1/4W J 2.2K -AT - SMALL R574 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R575 4060251315 RES-CF 1/4W J 2.2K -AT - SMALL R576 4050547255 RES-CF 1/4W J 2.2K -AT - SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R579 405051255 RES-CF 1/4W J 2.2K -AT - SMALL R579 405051255 RES-CF 1/4W J 2.2K -AT - SMALL R579 405051255 RES-CF 1/4W J 2.2K -AT - SMALL R580 405051255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R581 405051255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R583 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R584 4050156255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R585 4050156255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R586 4050156255 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R587 405051055 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R588 405051055 RES-CF 1/4W J 1.5K SMALL -AT - SMSE R589 405051055 RES-CF 1/4W J 1.0CR -AT - SMALL R597 405051055 RES-CF 1/4W J 1.0CR -AT - SMALL R597 405051055 RES-CF 1/4W J 1.0CR -AT - SMALL R598 405051055 RES-CF 1/4W J 1.0CR -AT - SMALL R599 405051055 RES-CF 1/4W J 1.0CR -AT - SMALL R599 405051055 RES-CF 1/4W J 1.0CR -AT - SMALL R599 405051055 RES-CF 1/4W J 1.0 | R556 | 4 | 050510355 | | RES-CF 1/4W J 10K AT SMALL |
| RES-CF 1/4W J 10K - AT - SMALL RES-GF 1/4W J 3.9K - AT - SMALL RES-GF 1/4W J 10QR - AT - RES-GF 1/4W J 10QR - AT - RES-GF 1/4W J 3.9K - AT - RES-GF 1/2W K 10QR - AT - RES-GF 1/2W J 3.9QR - AT - SMALL RES-GF 1/2W J 3.9QR - AT - SMALL RES-GF 1/2W J 3.9QR - AT - SMALL RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - SMALL - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF - AT - SMALL - AT - RES-GF 1/4W J 3.9QF | R557 | 4 | 050510355 | Î | RES-CF 1/4W J 10K AT SMALL |
| R559 | P558 | _ 4 | 050510355 | | RES-CF 1/4W J 10K -AT. SMALL |
| H960 4050510155 RES-CF 1/4W J 100R -AT- SMALL R561 4060210115 RES-CC 1/2W K 100R -AT- R562 4060210115 RES-CC 1/2W K 100R -AT- R563 4060210115 RES-CC 1/2W K 100R -AT- R564 4050239155 RES-CF 1/2W J 390R -AT- R565 4060210115 RES-CC 1/2W K 100R -AT- R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R569 4050582255 RES-CF 1/4W J 3.2K -AT- SMALL R570 4050515155 RES-CF 1/4W J 2.2K -AT- SMALL R571 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R572 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R573 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R574 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R575 4060251315 RES-CF 1/4W J 2.2K -AT- SMALL R576 4050547255 RES-CF 1/4W J 2.2K -AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050515355 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 1.5K SMALL -AT-< | R559 | 4 | 050539255 | | RES-CF 1/4W J 3 9K -AT- BMALL |
| H961 4060210115 RES-CC 1/2W K 100R - AT- R562 4060210115 RES-CC 1/2W K 100R - AT- R563 4060210115 RES-CC 1/2W K 100R - AT- R564 4050239156 RES-CC 1/2W K 100R - AT- R565 4060210115 RES-CC 1/2W K 100R - AT- R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R569 4050582255 RES-CF 1/4W J 2.2K - AT- SMALL R570 4050515155 RES-CF 1/4W J 2.2K - AT- SMALL R571 4050522255 RES-CF 1/4W J 2.2K - AT- SMALL R572 4050522255 RES-CF 1/4W J 2.2K - AT- SMALL R573 4050518455 RES-CF 1/4W J 2.2K - AT- SMALL R574 4050522255 RES-CF 1/4W J 2.2K - AT- SMALL R575 4060251315 RES-CF 1/4W J 2.2K - AT- SMALL R576 4050547255 RES-CF 1/4W J 2.2K - AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K - AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K - AT- SMALL R579 4050515355 RES-CF 1/4W J 1.5K SMALL - AT- R580 4050515255 RES-CF 1/4W J | R560 | 4 | 050510155 | | RES-CF 1/4W J 100R -AT, SMALL |
| R562 4060210115 RES-CC 1/2W K 100R - AT- R563 4060210115 RES-CC 1/2W K 100R - AT- R564 4050239155 RES-CF 1/2W J 390R - AT- R565 4060210115 RES-CC 1/2W K 100R - AT- R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R568 4050582255 RES-CF 1/4W J 3.2K - AT - SMALL R569 4050522155 RES-CF 1/4W J 150R SMALL - AT- R570 4050515155 RES-CF 1/4W J 2.2K - AT - SMALL R571 4050522255 RES-CF 1/4W J 2.2K - AT - SMALL R572 4050522255 RES-CF 1/4W J 1.8K SMALL - AT - SMALL R573 4050518455 RES-CF 1/4W J 1.2K - AT - SMALL R574 4050522255 RES-CF 1/4W J 2.2K - AT - SMALL R575 4060251315 RES-CF 1/4W J 2.2K - AT - SMALL R576 4050547255 RES-CF 1/4W J 2.2K - AT - SMALL R577 4050522255 RES-CF 1/4W J 1.5K - AT - SMALL R578 4050515255 RES-CF 1/4W J 1.5K - AT - SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL - AT - SMALL R582 4050515255 <td>A561</td> <td>4</td> <td>060210115</td> <td></td> <td>RES-CC 1/2W K 100R AT.</td> | A561 | 4 | 060210115 | | RES-CC 1/2W K 100R AT. |
| R563 | R562 | 44 | 060210115 | | |
| R564 | R563 | 40 | 060210115 | | |
| H565 4060210115 RES-CC 1/2W K 100R -AT- R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R568 4050582255 RES-CF 1/4W J 3.2K -AT- SMALL R569 4050515155 RES-CF 1/4W J 150R SMALL -AT- R570 4050515155 RES-CF 1/4W J 2.2K -AT- SMALL R571 405052255 RES-CF 1/4W J 2.2K -AT- SMALL R572 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R573 4050518455 RES-CF 1/4W J 2.2K -AT- SMALL R574 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R575 406051315 RES-CF 1/4W J 2.2K -AT- SMALL R576 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 1.5K SMALL -AT- R580 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050156255 RES-CF 1/4W J 1.5K SMALL -AT- R584 4050156255 RES-CF 1 | R564 | 40 | 050239155 | | |
| R566 4257042201 RES-PR MF 1/4W F 2.2K AT SMALL R568 4050582255 RES-CF 1/4W J 3.2K -AT- SMALL R569 4050522155 RES-CF 1/4W J 150R SMALL -AT- R570 4050515155 RES-CF 1/4W J 150R SMALL -AT- R571 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R572 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R573 4050518455 RES-CF 1/4W J 2.2K -AT- SMALL R574 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R575 4060251315 RES-CF 1/4W J 2.2K -AT- SMALL R576 4050547255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 1.5K -AT- SMALL R579 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R580 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 | R565 | 40 | 060210115 | | |
| R569 | R566 | 42 | 257042201 | İ | RES-PR MF 1/4W F 2.2K AT SMALL |
| R569 | R568 | 40 | 506B2255 | F | RES-CF 1/4W J 8.2K -AT- SMALL |
| R570 | H569 | 40 | 50522155 | F | RES-CF 1/4W J 220FI SMALL -AT- |
| H5/1 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R572 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R573 4050518455 RES-CF 1/4W J 180K SMALL -AT - R574 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R575 4060251315 RES-CF 1/2W K 51K -AT - R576 4050547255 RES-CF 1/4W J 4.7K -AT - SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT - SMALL R578 4050522255 RES-CF 1/4W J 15K -AT - SMALL R579 4050512355 RES-CF 1/4W J 15K -AT - SMALL R580 4050512255 RES-CF 1/4W J 1.5K SMALL -AT - R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT - R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT - R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT - R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT - R587 4050516255 RES-CF 1/2W J 5.6K SMALL -AT - R588 4050516255 RES-CF 1/4W J 16K -AT - SMALL R589 4050510155 | R570 | 40 | 50515155 | | |
| R5/2 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R573 4050518455 RES-CF 1/4W J 180K SMALL -AT- R574 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R575 4060251315 RES-CC 1/2W K 51K -AT- R576 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 1.5K -AT- SMALL R579 4050512355 RES-CF 1/4W J 1.5K SMALL -AT- SMALL R580 4050522255 RES-CF 1/4W J 1.5K SMALL -AT- SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/2W J 5.6K SMALL -AT- R588 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R588 405051055 RES-CF 1/4W J 1.6K -AT- SMALL R589 4050510155 < | | 40 | 50522255 | F | RES-CF 1/4W J 2.2K -AT- SMALL |
| R573 4050518455 RES-CF 1/4W J 180K SMALL -AT- R574 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R575 4060251315 RES-CC 1/2W K 51K -AT- R576 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 2.2K -AT- SMALL R580 4050515255 RES-CF 1/4W J 2.2K -AT- SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/2W J 5.6K SMALL -AT- R588 4050515355 RES-CF 1/4W J 1.5K -AT - SMALL R588 4050516255 RES-CF 1/4W J 1.6K -AT - SMALL R589 4050510155 RES-CF 1/4W J 1.0DR -AT - SMALL R591 4050510155 RES- | R572 | 40 | 50522255 | | |
| H574 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R575 4060251315 RES-CC 1/2W K 51K -AT- R576 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 15K -AT- SMALL R580 4050512255 RES-CF 1/4W J 1.5K SMALL -AT- R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/2W J 5.6K SMALL -AT- R588 4050516255 RES-CF 1/4W J 15K -AT- SMALL R589 4050510155 RES-CF 1/4W J 10OR -AT- SMALL R591 4050510455 RES-CF 1/4W J 10OR -AT- SMALL R597 4050510155 RES-CF 1/4 | R573 | 40 | 50518455 | F | RES-CF 1/4W J 180K SMALL -AT- |
| #575 4060251315 RES-CC 1/2W K 51K -AT- R576 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R579 405051355 RES-CF 1/4W J 1.5K -AT- SMALL R580 4050522255 RES-CF 1/4W J 1.5K SMALL -AT- R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050516355 RES-CF 1/2W J 5.6K SMALL -AT- R588 4050516255 RES-CF 1/4W J 1.5K -AT- SMALL R588 4050516255 RES-CF 1/4W J 1.5K -AT- SMALL R589 4050510155 RES-CF 1/4W J 1.0DR -AT- SMALL R591 4050510455 RES-CF 1/4W J 1.0DR -AT- SMALL R597 4050510155 RES-CF 1/4W J 1.0DR -AT- SMALL R598 4050510155 RES-CF 1/4W J 1.0DR -AT- SMALL | P574 | 40 | 50522255 | | |
| R576 4050547255 RES-CF 1/4W J 4.7K -AT- SMALL R577 405052255 RES-CF 1/4W J 2.2K -AT- SMALL R578 405052255 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 15K -AT- SMALL R580 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050516255 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 15K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510455 RES-CF 1/4W J 100R -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | R575 | 40 | 60251315 | LF. | ES-CC 1/2W K 51K -AT- |
| R577 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R578 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R579 4050515355 RES-CF 1/4W J 15K -AT- SMALL R580 4050522255 RES-CF 1/4W J 1.5K -AT- SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 16K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510456 RES-CF 1/4W J 100R -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | 40 | 50547255 | | |
| R579 4050515355 RES-CF 1/4W J 15K -AT- SMALL R580 4050522255 RES-CF 1/4W J 1.5K SMALL -AT- SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- S | | 40 | 50522255 | | |
| R879 4050515355 RES-CF 1/4W J 15K -AT- SMALL R580 4050522255 RES-CF 1/4W J 2.2K -AT- SMALL R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/2W J 5.6K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 40505156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 1.6K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510456 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | | R | ES-CF 1/4W J 2.2K -AT- SMALL |
| R581 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/2W J 1.5K -AT- SMALL R588 4050516255 RES-CF 1/4W J 1.5K -AT- SMALL R589 4050510155 RES-CF 1/4W J 1.0DR -AT- SMALL R591 4050510455 RES-CF 1/4W J 100R -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | | H | ES-CF 1/4W J 15K -AT- SMALL |
| R582 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R583 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 16DR -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510455 RES-CF 1/4W J 100R -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | - | | |
| R583 4050515255 RES-CF 1/4W J 1.5K SMALL -AT- R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 1.6K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R590 4050510155 RES-CF 1/4W J 100R -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | | | |
| R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/2W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 16K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510455 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | - | , | - | R | ES-CF 1/4W J 1.5K SMALL -AT- |
| R584 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R585 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R586 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 16K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510455 RES-CF 1/4W J 100R -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 R598 R5988 R598 4050510155 R5988 R598 R5988 R598 R5988 R598 R5988 R598 R5988 R598 R5 | | | | A. | ES-CF 1/4W J 1.5K SMALL -AT- |
| RS86 4050156255 RES-CF 1/2W J 5.6K SMALL -AT- R587 4050515355 RES-CF 1/4W J 15K -AT - SMALL R588 4050516255 RES-CF 1/4W J 1.6K -AT - SMALL R589 4050510155 RES-CF 1/4W J 100R -AT - SMALL R590 4050510155 RES-CF 1/4W J 100R -AT - SMALL R591 4050510455 RES-CF 1/4W J 100K -AT - SMALL R597 4050510155 RES-CF 1/4W J 100R -AT - SMALL R598 4050510155 RES-CF 1/4W J 100R -AT - SMALL | | | | RI | ES-CF 1/2W J 5.6K SMALL -AT- |
| R587 4050515355 RES-CF 1/4W J 15K -AT- SMALL R588 4050516255 RES-CF 1/4W J 1.6K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100F -AT- SMALL R590 4050510155 RES-CF 1/4W J 100F -AT- SMALL R591 4050510455 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100F -AT- SMALL R598 4050510155 RES-CF 1/4W J 100F -AT- SMALL | | | - | Al | S-CF 1/2W J 5.6K SMALL -AT- |
| R588 4050516255 RES-CF 1/4W J 1.6K -AT- SMALL R589 4050510155 RES-CF 1/4W J 100F -AT- SMALL R590 4050510155 RES-CF 1/4W J 100F -AT- SMALL R591 4050510455 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100F -AT- SMALL R598 4050510155 RES-CF 1/4W J 100F -AT- SMALL | | | | Al | S-CF 1/2W J 5.6K SMALL -AT- |
| R589 4050510155 RES-CF 1/4W J 100R -AT- SMALL R690 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510455 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | | RE | S-CF 1/4W J 15K -AT- SMALL |
| R590 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510456 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | - | R.E | S-CF 1/4W J 1,6K -AT- SMALL |
| R590 4050510155 RES-CF 1/4W J 100R -AT- SMALL R591 4050510455 RES-CF 1/4W J 100K -AT- SMALL R597 4050510155 RES-CF 1/4W J 100R -AT- SMALL R598 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | | RE | S-CF 1/4W J 100FI -AT- SMALL |
| R597 4050510155 RES-CF 1/4W J 100R -AT - SMALL
R598 4050510155 RES-CF 1/4W J 100R -AT - SMALL | | _ | | AE | S-GF 1/4W J 100R -AT- SMALL |
| RS98 4050510155 RES-CF 1/4W J 100R -AT - SMALL | | | | | |
| HEG-CT TAWY J TOUR -AT-SMALL | - ; | | | RE | S-CF 1/4W J 100R -AT- SMALL |
| 1 4050510155 RES-CF 1/4W J 100R -AT- SMALL | | | - | AE | S-CF 1/4W J 100R -AT- SMALL |
| | LDSA | 4050 | 1010155 | RE | S-CF 1/4W J 100R -AT- SMALL |

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| Q3573 | the second secon | TRS 2886470 TO 92M PT- |
| Q358 | 4114503660 | |
| Q359 | 41Y020945P | TRS: 25C945P:TO 92:RT |
| Q360 | 41 4522221 | PROPERTY AND ADMINISTRATION OF THE PROPERTY ADMINISTRATION OF THE PROPERTY AND ADMINISTRATION OF THE PROPERTY ADMINISTRAT |
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| QPE | 41101056103 | AT STANDARD NECESSARY AND ASSOCIATION OF A STANDARD STANDARD |
| R1 | 4050256455 | RES-CF 1/2W J 560K -AT- |
| R12 | 4171051256 | RES-MOF 1W J \$.1K -AT- |
| R13 | 4171013456 | RES-MOF 1W J 130K -AT- |
| R14 | 4171013456 | |
| R16 | 4050520155 | RES-CF 1/4W J 200R -AT- SMALL |
| H17 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| F19 | 4257048451 | RES-PR MF 1/4W F 8.45K SMALL - |
| R20 | 4050510155 | RES-CF 1/4W J 100R -AT- SMALL |
| R201 | 4257049311 | RES-PR MF 1/4W F 9.31K SMALL • |
| R202 | 4050230155 | RES-CF 1/2W J 300R -AT- |
| R203 | 4171013956 | RES-MOF 1W J 1.3R -AT- |
| R204 | 4257044641 | RES-PR MF 1/4W F 4.64K SMALL - |
| R205 | 4050562355 | RES-CF 1/4W J 62K SMALL -AT- |
| R206 | 4050524955 | RES-CF 1/4W J 2.4R SMALL -AT- |
| R207 | 4050575255 | RES-CF 1/4W J 7.5K -AT- \$MALL |
| R208 | 4257046801 | RES-PR MF 1/4W F 6.8K AT SMALL |
| R209 | 4050539355 | RES-CF 1/4W J 39K SMALL -AT- |
| R210 | 4050575955 | RES-OF 1/4W J 7.5R SMALL -AT- |
| R211 | 4257049311 | RES-PR MF 1/4W F 9.31K SMALL - |
| R212 | 4257048201 | RES-PR MF 1/4W F 8.2K AT SMALL |
| R22 | 4050515355 | RES-CF 1/4W J 15K -AT- SMALL |
| R23 | 4050515355 | RES-CF 1/4W J 15K -AT- SMALL |
| CIERO | 44 (320353) | DESIMORAWARDS OF SMALL |
| R232 | 4050527455 | RES-CF 1/4W J 270K SMALL -AT- |
| R24 | 4050547155 | RES-CF 1/4W J 470R SMALL -AT- |
| R243 | 4050210955 | RES-CF 1/2W J 1R -AT- |
| R244 | 4050210955 | RES-CF 1/2W J 1R -AT- |
| R245 | 4050515355 | RES-CF 1/4W J 15K -AT- SMALL |
| R25 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| R26 | 4050551255 | RES-CF 1/4W J 5,1K -AT- SMALL |
| R27 | 4050520355 | RES-CF 1/4W J 20K -AT- SMALL |
| R28 | 4050551255 | RES-CF 1/4W J 5.1K -AT- SMALL |
| R29 | 4050547055 | RES-CF 1/4W J 47R -AT- SMALL |
| R3 | 7105010037 | THMEA. +-15% 10R 5A 15+ W/KINK |
| R30 | 4050575155 | RES-CF 1/4W J 750R SMALL -AT- |
| fields | a til by on A hitter | BESTANDEZW. TANB. SAT |
| R302 | 4171018156 | RES-MOF 1W J 180R -AT- |
| R303 | 4050522355 | RES-CF 1/4W J 22K SMALL -AT- |
| P304 2 | E49720209562 | RESAMPOW CREATER |
| R305 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| R306 | 4172022956 | RES MOR 2W J 2.2R - ATA |
| R30766 | 4172056056 | RES MOP 2W J SER AT |
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| | PART NO. | DESCRIPTION |
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| B309 | | |
| R31 | 4050533055 | RES-GF 1/4W J 33R -AT- SMALL |
| R310 | 4050568255 | RES-CF 1/4W J 6.8K SMALL -AT- |
| R311 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| R312 | 4050518455 | RES-CF 1/4W J 180K SMALL -AT- |
| R313 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| R314 | 4050562355 | RES-CF 1/4W J 62K SMALL -AT- |
| R315 | 4050575355 | RES-CF 1/4W J 75K SMALL -AT- |
| P316 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| R317 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| R318 | 4050522255 | RES-CF 1/4W J 2.2K -AT- SMALL |
| R319 | 4050524355 | RES-CF 1/4W J 24K -AT- SMALL |
| R32 | 4050547255 | RES-CF 1/4W J 4.7K -AT- SMALL |
| #RS20 % | 41773203837 | RES-MOF 3W J 20K -SF- SMALL |
| R321 | 4050247055 | RES-CF 1/2W J 47R -AT- |
| R322 | 4172018056 | RES-MOF 2W J 18R -AT- |
| F324*/ | 4050510555 | CRESICE LAW DIMPATE SMALLS |
| R325 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| H326 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| (December | 4172075856 | BES-MOE 2W J 0.76R -AT- |
| P33 | 4050551255 | RES-CF 1/4W J 5.1K -AT- SMALL |
| R330 | 4050520455 | RES-CF 1/4W J 200K -AT- SMALL |
| R331 | 4050527455 | RES-CF 1/4W J 270K SMALL -AT- |
| R332 | 4050527455 | RES-CF 1/4W J 270K SMALL -AT- |
| R333 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| R335 | 4050527455 | RES-CF 1/4W J 270K SMALL -AT- |
| R336 | 4050547255 | RES-CF 1/4W J 4.7K -AT- SMALL |
| R337 | 4257041332 | RES-PR MF 1/4W F 13.3K AT SMAL |
| R339 | 4050520255 | RES-CF 1/4W J 2K -AT- SMALL |
| R34 | 4050527155 | RES-CF 1/4W J 270R -AT- SMALL |
| R340 | 4050530355 | RES-CF 1/4W J 30K SMALL -AT- |
| R341 | 4050551255 | RES-CF 1/4W J 5.1K -AT- SMALL |
| R342 | 4050551255 | RES-CF 1/4W J 5.1K -AT- SMALL |
| R343 | 4050247355 | RES-CF 1/2W J 47K -AT- |
| FISMA | A172022956 | HES-MOR 2W U 2 2R - AT- |
| R345 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| P346 | 4050522355 | RES-CF 1/4W J 22K SMALL -AT- |
| F348 | 4050522455 | RES-CF 1/4W J 220K SMALL -AT- |
| R349 | 4050510155 | RES-CF 1/4W J 100R -AT- SMALL |
| R35 | 4050518055 | RES-CF 1/4W J 18R -AT- SMALL |
| R350 | 4050522255 | RES-CF 1/4W J 2.2K -AT- SMALL |
| F351 | 4050247355 | RES-CF 1/2W J 47K -AT- |
| R354 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| P355 | 4050522255 | RES-CF 1/4W J 2.2K -AT- SMALL |
| P356 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| R357 | 4257042431 | RES-PR MF 1/4W F 2.43K AT SMAL |
| F358 | 4050547255 | RES-CF 1/4W J 4.7K -AT- SMALL |
| R359 | 4050547255 | RES-CF 1/4W J 4.7K -AT- SMALL |
| R36 | 4050527255 | RES-CF 1/4W J 2.7K -AT- SMALL |
| R360 | 4050518455 | RES-CF 1/4W J 180K SMALL -AT- |
| R362 | 4050539355 | RES-CF 1/4W J 39K SMALL -AT- |
| R363 | 4050527255 | RES-CF 1/4W J 2.7K -AT- SMALL |
| R364 | 4050568155 | RES-CF 1/4W J 6B0R SMALL -AT- |
| FSE. | TO THE PARTY OF THE | RES-MOF 2W.J.33K -AT- |
| R366 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| | 4257043320 | RES-PR MF 1/4W F 332R SMALL -A |
| R367 | 1 | |
| R369 | 4050522355 | RES-CF 1/4W J 22K SMALL -AT- |
| R369
R37 | 4050547155 | RES-CF 1/4W J 470R SMALL -AT- |
| R369 | | and the same of th |

| REE | RARTING | DOESCHIP HON. |
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| R372 | 405051249 | |
| P373 | 405051015 | |
| R374 | 417201215 | CONTRACTOR AND |
| A375 | 425704210 | |
| F376 | 417203805 | 3 RESMOR 2W J 36A SE |
| R377 | 405052045 | 5 RES-CF 1/4W J 200K -AT- SMALL |
| R378 | 405051025 | THE REAL PROPERTY. |
| P379 | 425704422 | CARLO CARLO CONTRACTOR OF THE CARLO |
| 93388
Book | | The state of the s |
| R380 | 405051025 | THE STATE STATE STATE |
| R381
R382 | 4050520459 | A THE OF THE STANFE |
| R383 | 405051825 | THE PROPERTY OF THE PARTY OF TH |
| A384 | 4050562358 | THE PARTY OF THE P |
| R385 | 4257041002 | |
| R388 | 4050510155 | TOTAL DIVINEL |
| R387 | 4050515955 | THE PROPERTY OF THE PARTY OF TH |
| FI388 | 4257046982 | THE PERSON OF THE PARTY OF THE |
| FI389 | 4050558355 | THE PROPERTY OF THE PARTY OF TH |
| R39 | 4050510555 | LEES-CRIPAWITH AL SMALL |
| P390 | 4050524455 | |
| R391 | 4050547455 | |
| R392 | 4050511355 | |
| <u> R393</u> | 4050582455 | RES-CF 1/4W J 820K SMALL -AT- |
| R394 | 4050510355 | THE PARTY OF THE PROPERTY |
| R395 | 4050510355 | THE STATE OF THE STATE STATE |
| F1396 | 4050511355 | RES-CF 1/4W J 11K SMALL -AT- |
| R397 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| F398 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| R399 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| R401 | 408502025E | FES.WW.5W.LPK.SGY.A |
| R402 | 4050533255 | RES-CF 1/4W J 3.3K -AT- SMALL |
| R403 | 4257044751 | RES-CF 1/4W J 47K -AT- SMALL |
| R404 | 4050547355 | RES-PR MF 1/4W F 4.75K AT SMAL |
| R405 | 4050547356 | RES-CF 1/4W J 47K -AT- SMALL
RES-CF 1/4W J 47K -AT- SMALL |
| P406 | 4050575355 | RES-CF 1/4W J 75K SMALL -AT- |
| R407 | 4050518455 | RES-CF 1/4W J 180K SMALL -AT- |
| R408 | 4050547355 | RES-CF 1/4W J 47K -AT- SMALL |
| Han. | VALUE OF MISSES | LEES OF YOUR DIMENT SMALL |
| R410 | 4050522255 | RES-CF 1/4W J 2.2K -AT- SMALL |
| R411 | 4050522355 | RES-CF 1/4W J 22K 5MALL -AT- |
| R412 | 4050543355 | RES-CF 1/4W J 43K SMALL -AT- |
| FI413 | 4050539355 | RES-CF 1/4W J 39K SMALL -AT- |
| R42 | 4050513255 | RES-CF 1/4W J 1.3K -AT- SMALL |
| R4202 | 4/7/40/00/56 | RES MOF 200 JUR ALE |
| P421 | 4050515455 | RES-CF 1/4W J 150K SMALL -AT- |
| R422 | 4050220455 | RES-CF 1/2W J 200K -AT- |
| R423 | 4050520455 | RES-CF 1/4W J 200K -AT- SMALL |
| H424
H425 | 4050520355 | RES-CF 1/4W J 20K -AT- SMALL |
| R428 | 4050575255 | RES-CF 1/4W J 7.5K -AT- SMALL |
| R427 | 4050568455
4050515355 | RES-CF 1/4W J 680K SMALL -AT- |
| R428 | 4050551255 | RES-CF 1/4W J 15K -AT- SMALL |
| R429 | 4050562455 | RES-CF 1/4W J 5.1K -AT- SMALL
RES-CF 1/4W J 520K SMALL -AT- |
| R43 | 4050543055 | RES-CF 1/4W J 43R -AT- SMALL |
| R430 | 4050522355 | RES-CF 1/4W J 22K SMALL -AT- |
| P431 | 4050520155 | RES-CF 1/4W J 200R -AT- SMALL |
| R44 | 4050533055 | RES-CF 1/4W J 33R -AT- SMALL |
| FI441 | 4050520255 | RES-CF 1/4W J 2K -AT- SMALL |
| | | |

| सहाचे ह | PART NO | DESCRIPTION |
|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R442 | | S RES-CF 1/4W J 10K -AT- SMALL |
| R443 | | THE OF THE PROPERTY AND |
| R449 | Cold a Product State on some | HES-MOF 2W J 330R -AT- |
| R45 | 407203385 | BES.MF. 2W J. 0.338 AT. |
| R450 | 405059125 | |
| FI451 | 405051045 | THE STATE OF THE S |
| R452 | 405051545 | THE STATE OF THE S |
| R453 | 4050510456 | THE OF HAM S TOOK SMALL -AT- |
| P454 | NAME AND ADDRESS OF THE OWNER, THE PARTY OF THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, | TAMALL |
| R455 | 4050575355 | RES-CF 1/4W J 75K 5MALL -AT- |
| 8457 | ter at the Control of the Alberta Control | A THE PARTY OF THE |
| R458 | 4050510156 | RES-CF 1/4W J 100R -AT- SMALL |
| R459 | 4257041003 | |
| R46 | 4050222155 | |
| R460 | 4050527055 | T. WELL GEROLL III |
| R461 | 4050527055 | THE ST TO SERVICE THE PROPERTY OF THE PERSON |
| R47 | 4171075356 | A THE PARTY OF THE PROPERTY OF THE PARTY. |
| R48 | 4172022056 | Manager Control of the Control of th |
| R49 | 4257046201 | |
| R5 | 4071033855 | RES-PR MF 1/4W F 6.2K AT SMALL
RES-MF 1W J 0.33R -AT- |
| A50 | 4257049400 | |
| R51 | 4050222355 | THE LATER LA |
| R52 | 4050510255 | RES-CF 1/2W J 22K -AT- |
| A53 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| R54 | 4050591255 | RES-CF 1/4W J 1K -AT- SMALL |
| R56 | 4050510355 | RES-CF 1/4W J 9.1K SMALL -AT- |
| 1967 | 4060510555 | RES-CF 1/4W J 10K -AT- SMALL |
| R59 | 4050547255 | RESIDENTAL AT SMALL |
| FIG 200 | 4095010351 | RES-CF 1/4W J 4.7K -AT- SMALL |
| R60 | : 4171015956 | RES WW.SW J.JOK.SQM-SF |
| R61 | 4050222155 | RES-MOF 1W J 1.5R -AT- |
| P62 | 4050520255 | RES-CF 1/2W J 220R -AT- |
| R64 | 4050547155 | RES-CF 1/4W J 2K -AT- SMALL |
| R65 | 4050547255 | RES-CF 1/4W J 470R SMALL -AT- |
| P66 | 4050533055 | RES-CF 1/4W J 4.7K -AT- SMALL |
| R67 | 4050510155 | RES-CF 1/4W J 33R -AT- SMALL |
| R68 | 4050510155 | RES-CF 1/4W J 100R -AT- SMALL |
| R69 | 4050510155 | RES-CF 1/4W J 100R -AT - SMALL |
| H7 | 4171051256 | RES-CF 1/4W J 100R -AT- SMALL |
| R70 | 4050510355 | RES-MOF 1W J 5.1K -AT- |
| B71 | 4050510055 | RES-CF 1/4W J 10K -AT- SMALL |
| R8 | | RES-CF 1/4W J foR -AT- SMALL |
| FL301 | 4050527255
4420412002 | RES-CF 1/4W J 2.7K -AT- SMALL |
| RP10 | 4050568255 | RES.CE 10W LE DE CHALL AT |
| RP11 | 4050510255 | RES-CF 1/4W J 6.8K SMALL -AT- |
| BP12 | 4050510355 | RES-CF 1/4W J 1K -AT - SMALL |
| RP13 | 40505 t0855 | RES-CF 1/4W J 10K -AT- SMALL |
| RP14 | 4257041003 | GES ES 1/4W J TOM SMALL AT |
| RP15 | 4050522055 | RES-PR MF 1/4W F 100K AT SMALL |
| RP16 | 4050518255 | RES-CF 1/4W J 22R SMALL -AT- |
| RP17 | 4050510355 | RES-CF 1/4W J 1.8K -AT- SMALL |
| FIP18 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| RP21 | 4050510355 | RES-CF 1/4W J 10K -AT- SMALL |
| RP22 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| | THE PERSON OF THE | RES-CF 1/4W J 1K -AT- SMALL |
| RP24 | 4050522355 | RES-MOE ZW J 2K-AT- |
| RP4 | 4050522355 | RES CE 1/4W J 22K SMALL -AT- |
| RP5 | 4050510155 | RES-CF 1/4W J 100R -AT- SMALL |
| AP6 | 4050510255 | RES-CF 1/4W J 1K -AT- SMALL |
| RP7 | 4257041802 | RES-CF 1/4W J 1K -AT - SMALL |
| | . Les 97100E | RES-PR MF 1/4W F 18K AT SMALL |

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| C29 | 5128471552 | CAP-CCSL 470PFJ 50V -RT- |
| C3 | 5065224425 | CAP-MPR 0.22UFM 250V -SF- |
| 030 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C302 | 515X221T25 | CAP-ECX 220UFM 25V -RT- |
| C303 | 5113224150 | CAP-MC 0.22UFK 50V -SF- |
| C304 | 5116472111 | CAP-MC 0.0047UFK 100V -RT- |
| C306 | 5195822573 | CAP-PMHA 8200PFJ 1,6KV -SF- |
| C307 | 5092682565 | CAP-PP 6800PFJ 630V P:10MM -SF |
| C308 | 5074475101 | CAP-MEF 4.7UFK 100V -SF- |
| C31 | 5116104150 | CAP-MC 0.1UFK 50V -RT- |
| C310 | 515X221T25 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| G311 | 5195514543 | |
| C312 | 5116104111 | |
| C313 | 5190184543 | - 4 |
| | | CAP-MPP 0.18UFJ 400V P:22.5MM |
| C315 | 5156470T50 | CAP-EC6 47UFM 50V -RT- |
| C318 | 515X471S25 | GAP-ECX 470UFM 25V -SF- |
| C317 | 515X471S25 | CAP-ECX 470UFM 25V -SF- |
| C318 | 5128391552 | CAP-CCSL 390PFJ 50V -RT- |
| C319 | 5156229T50 | CAP-EC6 2.2UFM 50V -RT- |
| C32 | 5101101132 | CAP-CCB 100PFK 1KV -RT- |
| C320 | 5156100803 | CAP-EC8 10UFM 250V -SF- |
| C321 | 5116103111 | CAP-MC 0.01UFK 100V -RT- |
| C322 | 5101821152 | CAP-CCB 820PFK 50V -RT- |
| C323 | 5074333102 | CAP-MEF 0.033UFK 250V P:10mm - |
| C324 | 5190105543 | CAP-MPP 1UFJ 400V -SF- |
| C325 | 5113224150 | CAP-MC 0.22UFK 50V -\$F- |
| C326 | 5074104104 | CAP-MEF 0.1UFK 400V -SF- |
| C329 | 5190333553 | CAP-MPP 0.033UFJ 1500V -SF- |
| C33 | 515X102S25 | CAP-ECX 1000UFM 25V -SF- |
| C330 | 5116103111 | *1 |
| C331 | | CAP-MC 0.01UFK 100V -HT- |
| C333 | 5101681132 | CAP MC A NUTCHARD |
| | 5116104111 | CAP MC 0.1UFK 100V -RT- |
| C334 | 5716104111 | CAP-MC 0.1UFK 100V -RT- |
| C339 | 5074684101 | CAP-MEF 0.68UFK 100V -SF- |
| 034 | 5156101T10 | CAP-EC6 100UFM 10V -AT- |
| C342 | 5101102132 | CAP-CCB 1000PFK 1KV -RT- |
| C343 | 515X109T50 | CAP-ECX 1UFM 50V -RT- |
| 0344 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C345 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C347 ; | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| C349 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 0350 | 5156109T50 | CAP-EC6 1UFM 5DV -RT- |
| 0354 | 5156109T50 | CAP-EC6 1UFM 50V -RT- |
| C355 | 5156478T50 | CAP-EC6 0.47UFM 50V -RT- |
| 0357 | 5116682111 | CAP-MC 6800PFK 100V -RT- |
| 0358 | 5116473111 | CAP-MC 0.047UFK 100V -RT- |
| C359 | 5128221552 | CAP-CCSL 220PFJ 50V -RT- |
| 036 | 515F471S25 | |
| 0360 | 510147132 | CAP-CCR 470DEK 1KV BT |
| 0361 | | CAP-CCB 470PFK 1KV -RT- |
| | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 2362 | 5092222615 | CAP-PP 0.0022UFG 100V P:7.5mm |
| 364 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 365 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 2366 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 2369 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 2370 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| 371 | 5074104101 | CAP-MEF 0.1UFK 100V -SF- |
| 372 | 5116104150 | CAP-MC 0.1UFK 50V -RT- |
| 373 | 5075474505 | CAP-MEF 0,47UFJ 50V -RT- |
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| THE S | PART NO. | DESCRIPTION |
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| C375 | 5156100T50 | CAP-EC6 10UFM 50V -RT- |
| C376 | 5116102111 | CAP-MC 0.001UFK 100V -RT- |
| C377 | 5116153111 | CAP-MC 0.015UFK 100V -RT- |
| C378 | 5156229T50 | |
| C379 | 5116223111 | GAP-MC 0.022UFK 100V -RT- |
| C38 | 5101102132 | CAP-CCB 1000PFK 1KV -RT- |
| C380 | 5156471S1B | 7 1.4 |
| C381 | 5134104452 | The second secon |
| C382 | | CAP-SCF 0.1UFZ 50V -RT- |
| | 5144102550 | CAP-COS 0.001UFJ 50V -SF- |
| C383 | 5156101T25 | CAP-EC6 100UFM 25V -RT- |
| C384 | 5075224550 | CAP-CF 0.22UFJ 50V P:5MM -RT- |
| C385 | 5156109T50 | CAP-EC6 1UFM 50V -RT- |
| C386 | 5116104150 | CAP-MC 0.1UFK 50V -RT- |
| C388 | 5128221552 | CAP-COSL 220PFJ 50V -RT- |
| C389 | 5116152550 | CAP-MC 0.0015UFJ 50V -RT- |
| C39 | 5101102132 | CAP-CCB 1000PFK 1KV -RT- |
| C390 | 5156101T25 | CAP-EC6 100UFM 25V -RT- |
| C391 | 5116104111 | CAP-MC 0.1UFK 100V -RT- |
| C392 | 5156109T50 | |
| C393 | 12 | CAP-EC6 1UFM 50V -RT- |
| | 5128271552 | CAP-CCSL 270PFJ 50V -RT- |
| C394 | 5128101152 | CAP-CCSL 100PFK 50V -RT- |
| C395 | 5128101152 | CAP-CCSL 100PFK 50V -RT- |
| C396 | 5116104111 | CAP-MC 0.1UFK 100V -RT- |
| C397 | 5116104111 | CAP-MC 0.1UFK 100V -RT- |
| C398 | 5116103111 | CAP-MC 0.01UFK 100V -RT- |
| C4 | 5065224425 | CAP-MPR 0.22UFM 250V -SF- |
| C410 | 5074153104 | CAP-MEF 0.015UFK 400V -SF- |
| C411 | 5113224111 | CAP-MC 0.22UFK 100V -SF- |
| C412 | 5074103104 | CAP-MEF 0.01UFK 400V -SF- |
| C413 | 5162229250 | GAP-NP 2.2UFM 50Y 85C |
| C414 | 5116104111 | |
| C415 | - | CAP-MC 0.1UFK 100V -RT- |
| | 5116104111 | CAP-MC 0.1UFK 100V -RT- |
| C42 | 5156470T01 | CAP-EC6 47UFM 100V -RT- |
| C424 | 5116393150 | CAP-MC 0.039UFJ 5DV -RT- |
| C47 | 5101103112 | CAP-CCB 0.01UFK 100V -RT- |
| C49 | 5101102132 | CAP-CCB 1000PFK 1KV -RT- |
| C5 | 5061472440 | CAP-CCS 4700PFM 400V -SF- |
| C52 | 5128221552 | CAP-CCSL 220PFJ 50V -RT- |
| C54 | 5162100T25 | CAP-NP 10UFM 25V RT 85C |
| C55 | 5075474505 | CAP-MEF 0.47UFJ SDV -RT- |
| C8 | 5061472440 | CAP-CCS 4700PFM 400V -SF- |
| 27 | 5061472440 | CAP-CCS 4700PFM 400V -SF- |
| Ċ8 | 5061472440 | 1 |
| 09 | | CAP-CCS 4700PFM 400V -SF- |
| | 515P331S04 | CAP-ECP 330UFM 400V -SF- |
| OP10 | 515X221S07 | CAP-ECX 220UFM 200V -5F- |
| CP11 | 5074104102 | CAP-MEF 0.1UFK 250V -SF- |
| CP12 | 5156100T50 | CAP-EC6 10UFM 50V -RT- |
| CP13 | 5116104150 | CAP-MC 0.1UFK 50V -RT- |
| P14 | 5074103102 | CAP-MEF 0.01UFK 250V -SF- |
| P15 | 5101102132 | CAP-CCB 1000PFK 1KV -RT- |
| P16 | 5156220T25 | CAP-EC6 22UFM 25V -RT- |
| P17 | 5134104452 | CAP-SCF 0.1UFZ 50V -RT- |
| CP3 | 5128681552 | CAP-CCSL 680PFJ 50V -RT- |
| P4 | 5118102111 | CAP-MC 0.001UFK 100V -RT- |
| P5 | | |
| | 5116102111 | CAP-MC 0.001UFK 100V -RT- |
| P6 | 5156100T50 | CAP-EC6 10UFM 50V -RT- |
| P7 | 5128331552 | CAP-CCSL 330PFJ 50V -AT- |
| P8 | 5116103111 | CAP-MC 0.01UFK 100V -RT- |
| 000 | 4120146060 | DIODE IN4606 (SI) AT |

| D11 | REF | PARTNO | DESCRIPTION |
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| D122 | 1 | The second of th | |
| D13 | The state of the s | | |
| D14 | A CONTRACTOR OF THE PARTY OF TH | The second second | |
| D16 | | Coll Biological Control of | |
| D16 | TRACIDIAN | THE CHARLEST OF THE REAL | |
| D17 | Committee Committee | 413010426 | DIODE BYV26C KINK FORMING AT |
| D18 | D16 8 | 41303031FA | 5 DIODE 310F6 |
| D19 | D17 | #1303031F | DIODE 310F8 |
| D20 | D18 | 41303030F | DIODE 36DF2 |
| D216 | D19 | 41303030F | DIODE 30DF2 |
| D216 | D20 | 4120104001 | DIODE IN4001 AT |
| D210 | D214 | 4120104001 | THE RESIDENCE OF THE PARTY OF T |
| D213 | 0218 | AND DESCRIPTION OF THE PARTY OF | |
| D212 | 100000000000000000000000000000000000000 | CI O CHEST CONCOUNTS | |
| D213 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | P. S. Charles Communication | |
| D214 | The second second | CONTRACTOR DESIGNATION | |
| D215 | And in contrast of the | | |
| D216 | 100000000000000000000000000000000000000 | | |
| D22 | | 4150100218 | |
| D22 | | 4120141490 | |
| D22 | D217 | 4130104260 | DIODE BYV26C KINK FORMING AT |
| D24 | D22 | 41303030F2 | |
| D24 | 023 | 4120104001 | DIODE IN4001, AT |
| D301 | D24 | 41303031F6 | |
| D302 | Charles and | CONTRACTOR OF STREET | |
| D308 | D302 | The second second second | |
| D308 | STREET, SQUARE, | A SECURITION OF THE RESERVE | |
| D309 | 4 (10.00) | THE RESERVE OF THE PERSON NAMED IN | |
| D310 | 100 | promise property and the property of the pro- | The second secon |
| B311 | 100 100 100 | The state of the s | |
| D312 | Marine T. | The state of the s | |
| D314 | D311 | 4130100103 | DIODE HGP103,5390 1A 600V AT- |
| D315 | D312 | 413020120A | DIODE EGP-20A-ATC |
| D315 | D314 | 4130100100 | DIODE ROPTOD 5302 AT 145 |
| D332 4130506200 DIODE CTP-42 FR TO-220 D333 4120141480 DIEDE IN4148 (SI) AT D334 4130100101 DIODE RGP101-5390 1A 800V AT D350 4130100101 DIODE RGP101-5390 1A 800V AT D371 1120141480 DIODE RGP101-5390 1A 800V AT D372 4120141480 DIODE IN4148 (SI) AT D373 413010010D DIODE RGP100-5302 AT 1A D374 4120141480 DIODE IN4148 (SI) AT D375 4120141480 DIODE IN4148 (SI) AT D375 4120141480 DIODE IN4148 (SI) AT D5 4130104260 DIODE IN4001 AT D6 1120104001 DIODE IN4001 AT D7 4130104260 DIODE IN4001 AT D8 4130104260 DIODE IN4001 AT D8 4130104260 DIODE IN4000 SY 26D D71 4130104260 DIODE IN4000 SY 26D D72 4130104060 DIODE IN4000 SY 26D D73 41303031F4 DIODE SY 400V SYNS 31DF4 AT D74 4120146060 DIODE IN4000 SSNS 31DF4 AT D75 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB5 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209046 FERRITE BEAD 2UH -AT- FB8 4322209046 FERRITE BEAD 2UH -AT- FB9 4322209046 FERRITE BEAD 2UH -AT- | 0315 | 4120141480 | |
| D333 | D33200 | 4130500200 | |
| D334 | D333 % | 41201414804 | |
| D350 | D334 | CONTRACTOR CONTRACTOR | |
| 0371 3120141490 DIGDE 1N4148 (SI) AT D372 4120141480 DIGDE 1N4148 (SI) AT D373 413010010D DIGDE 1N4148 (SI) AT D374 4120141480 DIGDE 1N4148 (SI) AT D375 4120141480 DIGDE 1N4148 (SI) AT D401 4120141480 DIGDE 1N40013AT DE D5 4130104260 DIGDE 1N40013AT DF D7 4130104260 DIGDE 1N40013AT DF D8 4130104260 DIGDE 1N40013AT DF D91 4130104260 DIGDE 1N40013AT DF DP1 4130104260 DIGDE 1N40013AT DF DP2 4130150950 DIGDE 1N4606 (SI) AT DP3 41303031F4 DIGDE 3A44007 3SNS 31DF4 AT DP4 4120145060 DIGDE 1N4606 (SI) AT DP4 4120145060 DIGDE 3A44007 3SNS 31DF4 AT FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- | CONTRACTOR OF THE | The second secon | DEDE COOKS PRODUCTION |
| D372 4120141480 DIODE 1N#148 (SI) AT- D373 413010010D DIODE RGP100-S302 AT-1A D374 4120141480 DIODE 1N4148 (SI) AT- D375 4120141480 DIODE 1N4148 (SI) AT- D401 4120141480 DIODE 1N4148 (SI) AT- D5 4130104260 DIODE 1N4001-AT- D6 1120104001 DIODE 1N4001-AT- D7 4130104260 DIODE 1N4001-AT- D8 4130104260 DIODE 1A800V BY V26D DP1 4130104260 DIODE 1A800V BY V26D DP1 4120146080 DIODE 1A800V BY V26D DP1 4120146080 DIODE 1A800V SI) AT- DP2 4130331F4 DIODE 3A400V SINS 31DF4 AT- DP4 4120146060 DIODE 1N4608 (SI) AT- DP4 4120146060 DIODE 1N4608 (SI) AT- FF 5268400052 FUSE AA256VA0 FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209048 FERRITE BEAD 2UH -AT- FB7 4322309000 FERRITE BEAD 3UH -AT- | Contract of the | Critical and the second section is | |
| D373 | The second second second | Children and Administration | |
| D374 | | The state of the s | FUICUE IN4148 (SIT AT |
| D375 4120141480 DIODE IN4148 (SI) AT D401 4120141480 DIODE IN4148 (SI) AT D5 4150104260 DIODE IN4001 AT D6 1120104001 DIODE IN4001 AT D7 4130104260 DIODE IN4001 AT D8 4130104260 DIODE IN4000 BYV26D DP1 4120146080 DIODE IN4606 (SI) AT DF2 4130150950 DIODE BYV950 SOD-57 DP3 41903031F4 DIODE SA400V SSNS SIDF4 AT DP4 4120145060 DIODE IN4606 (SI) AT F1 5268400052 FUSE AAZ50VAC F81 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209048 FERRITE BEAD 2UH -AT- FB7 4322209046 FERRITE BEAD 3UH -AT- FB91 4322309000 FERRITE BEAD 3UH -AT- | With the same of the last | | |
| D401/ 4120141480 DIODE IN4148 (S) AT. D5 413010426C DIODE IN4001 AT. D6 1120104001 DIODE IN4001 AT. D7 413010426C DIODE BYV28C KINK FORMING AT. D8 413010426C DIODE BYV28C KINK FORMING AT. D8 413010426D DIODE 1A300V BYV26D. DF1 A120148080 DIODE 1N4608 (S) AT. DF2 413015096C DIODE BYV95C SOD-87 DF3 41903031F4 DIODE SA400V SSNS 31DF4 AT. DP4 4120148066 DIODE IN4608 (S) AT. F1 5288400052 FUSE AAZBOVAC FB1 4322209046 FERRITE BEAD 2UH AT. FB2 4322209046 FERRITE BEAD 2UH AT. FB4 4322209046 FERRITE BEAD 2UH AT. FB6 4322209046 FERRITE BEAD 2UH AT. FB7 4322209048 FERRITE BEAD 2UH AT. FB7 4322309000 FERRITE BEAD 3UH AT. FBP1 4322309000 FERRITE BEAD 3UH AT. | | | |
| D5 415010426C DIODE BYV28C KBK FORMING AT- D6 1120104001 DIODE IN40013AT- D7 413010426C DIODE BYV28C KBK FORMING AT- D8 413010426C DIODE 1A900V BYV26D DF1 A120146080 DIODE 1A900V BYV26D DF2 413015095C DIODE BVV95C SOD-57 DF3 41303031F4 DIODE BAV00V SSNS 31DF4 AT- DF4 412014506C DIODE BVV95C SIN AT- F1 5288400052 FUSE AAZBOVAC FB1 4322209046 FERRITE BEAD 2UH AT- FB2 4322209046 FERRITE BEAD 2UH AT- FB4 4322209046 FERRITE BEAD 2UH AT- FB5 4322209046 FERRITE BEAD 2UH AT- FB6 4322209046 FERRITE BEAD 2UH AT- FB7 4322309006 FERRITE BEAD 3UH AT- FB7 4322309006 FERRITE BEAD 3UH AT- | D375 | 4120141480 | POIODE IN4146 (SITEAT AT A STATE OF A STATE |
| D6 1120104001 DIODE 1N4001 AT D7 413010426D DIODE 1X400V BYV26D D8 413010426D DIODE 1X400V BYV26D DF1 4120146080 DIODE 1X400V BYV26D DF2 413016095C DIODE 8VV95C SQD-57 DF3 41303031F4 DIODE 8X400V SSNS 31DF4 AT DP4 412014506C DIODE 1N4606 ISI AT F1 5268400052 FUSE 4AZ50VAC FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB5 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322309006 FERRITE BEAD 3UH -AT- FB7 4322309006 FERRITE BEAD 3UH -AT- | D401/3 | 4120141480 | SDIODE INSTANCENDAT |
| D6 4120104001 DiODE IN4001 AT- D7 4130104260 DIODE BYV260 KINK FORMING AT- D8 4130104260 DIODE TARROV BYV26D DP1 4120146080 DIODE TIMESOS (SI) AT- DP2 4130150950 DIODE BYV950 SQD-57 DP3 41303031F4 DIODE SAMOV SSNS 31DF4 AT- DP4 4120145060 DIODE TIMESOS (SI) AT- F1 5268400082 FUSE AAZSOVAO FB1 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209048 FERRITE BEAD 2UH -AT- FB7 4322209048 FERRITE BEAD 3UH -AT- FB91 4322309006 FERRITE BEAD 3UH -AT- FBP1 4382834200 IC UC38424 SPIM | 05 | 4130104260 | DIOCE BYV250 KNK FORMING AT |
| D7 413010426C D/ODE BYV26C KINK FORMING AT- D8 413010426D DIODE 1A900V BYV26D DF1 A120146060 DIODE 1N4606 (5) AT- DF2 413015095C DIODE BYV95C SOD-57 DP3 41303031F4 DIODE SA4400V 3SNS 31DF4 AT- DP4 4128 (4506C) DIODE 1N4608 (S) AT- F1 5268400052 FUSE AA2260VAC FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209048 FERRITE BEAD 2UH -AT- FB7 4322209048 FERRITE BEAD 3UH -AT- FB91 4322309006 FERRITE BEAD 3UH -AT- FB91 4322309006 FERRITE BEAD 3UH -AT- | D6 | 4120104001 | DIODE IN4001 AT |
| D8 413010426D DIODE 1A 900V BY V26D DP1 4120146060 DIODE 1N4606 (B) AT2 DF2 413016095C DIODE 8V V95C SOD-57 DP3 41303031F4 DIODE 8A 400V SSNS 31DF4 - AT2 DP4 4120145066 DIODE 1N4606 (S) AT2 FS 5268400052 FUSE 4A 2560VAC FB1 4322209046 FERRITE BEAD 2UH - AT4 FB2 4322209046 FERRITE BEAD 2UH - AT4 FB3 4322209046 FERRITE BEAD 2UH - AT4 FB4 4322209046 FERRITE BEAD 2UH - AT4 FB6 4322209046 FERRITE BEAD 2UH - AT4 FB7 4322209046 FERRITE BEAD 2UH - AT4 FB7 4322209046 FERRITE BEAD 2UH - AT4 FB7 4322309006 FERRITE BEAD 3UH - AT4 FBP1 4322309006 FERRITE BEAD 3UH - AT4 FBP1 4322309006 FERRITE BEAD 3UH - AT4 FBP1 4322309006 FERRITE BEAD 3UH - AT4 FBC2 4158384200 ICUC38424 8PIM | DZ | BOTTO COLLEGE PRODUCTION | |
| DP1 | D8 1 | BROWN INTERCORPORATE | DIODE IA 900V RY V26D |
| DF2 413015095C DIODE BW95C SQD-57 DF3 41303031F4 DIODE 3A400V 35NS 31DF4 -AT DF4 412614506C DIODE 1N4606 (St) -AT- F1 5268400052 FUSE AA250VAC FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209046 FERRITE BEAD 2UH -AT- FB7 4322309006 FERRITE BEAD 3UH -AT- FBP1 4322309006 FERRITE BEAD 3UH -AT- | | STATE OF THE PARTY OF | |
| DP3 41903031F4 DIODE SA 400 V 35NS 31DF4 - AT DP4 4128 (45060 DIODE 1N4806 ISI) - AT S288400052 FUSE 4AZ 60 V AC FB1 4322209046 FERRITE BEAD 2UH - AT FB2 4322209046 FERRITE BEAD 2UH - AT FB4 4322209046 FERRITE BEAD 2UH - AT FB6 4322209046 FERRITE BEAD 2UH - AT FB7 4322209046 FERRITE BEAD 2UH - AT FB7 4322209046 FERRITE BEAD 2UH - AT FB7 4322309006 FERRITE BEAD 3UH - AT FBP1 4322309006 FERRITE BEAD 3UH - AT FBP1 4323309006 FERRITE BEAD 3UH - AT FBP1 4323390006 FERRITE BEAD 3UH - AT FBP1 4323390006 FERRITE BEAD 3UH - AT FBP1 4352309006 FERRITE BEAD 3UH - AT FBP1 4352309000 FERRITE BEAD 3UH - AT FBP1 4352300000 FERRITE BEAD 3UH - AT FB | | PERSONAL PROPERTY. | |
| DP4 4128145066 DIODE IN4606 (SI) - AT- F1 5288400052 FUSE AAZ50VAC FB1 4322209046 FERRITE BEAD 2UH - AT- FB2 4322209046 FERRITE BEAD 2UH - AT- FB3 4322209046 FERRITE BEAD 2UH - AT- FB4 4322209046 FERRITE BEAD 2UH - AT- FB6 4322209046 FERRITE BEAD 2UH - AT- FB7 4322209048 FERRITE BEAD 3UH - AT- FBP1 4322309006 FERRITE BEAD 3UH - AT- IG2 4158384200 IC.UC38424 8PIM | Contract Contract | Charles Contract Cont | |
| F1 5268400082 FUSE AA256VAG FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209046 FERRITE BEAD 2UH -AT- FB7 4322309006 FERRITE BEAD 3UH -AT- FBP1 4322309006 FERRITE BEAD 3UH -AT- IGZ 4158384200 IC.UC38424 8PIM | BENEFIT OF STREET | BUTTO CONTRACTOR AND CONTRACTOR | the same of the sa |
| FB1 4322209046 FERRITE BEAD 2UH -AT- FB2 4322209046 FERRITE BEAD 2UH -AT- FB3 4322209046 FERRITE BEAD 2UH -AT- FB4 4322209046 FERRITE BEAD 2UH -AT- FB6 4322209046 FERRITE BEAD 2UH -AT- FB7 4322209048 FERRITE BEAD 2UH -AT- FBP1 4322309000 FERRITE BEAD 3UH -AT- FBP1 432309000 FERRITE BEAD 3UH -AT- | * * * * * * * * * * * * * * * * * * * | THE PERSON NAMED IN COLUMN | |
| FB2 4322209046 FERRITE BEAD 2UH -AT-
FB3 4322209046 FERRITE BEAD 2UH -AT-
FB4 4322209046 FERRITE BEAD 2UH -AT-
FB6 4322209046 FERRITE BEAD 2UH -AT-
FB7 4322209048 FERRITE BEAD 2UH -AT-
FBP1 4322309000 FERRITE BEAD 3UH -AT-
FBP1 432309000 FERRITE BEAD 3UH -AT-
FBP1 432309000 FERRITE BEAD 3UH -AT- | | | The second secon |
| FB3 4322209046 FERRITE BEAD 2UH -AT-
FB4 4322209046 FERRITE BEAD 2UH -AT-
FB6 4322209046 FERRITE BEAD 2UH -AT-
FB7 4322209048 FERRITE BEAD 2UH -AT-
FBP1 4322309006 FERRITE BEAD 3UH -AT-
IGZ 4158384200 IC.UC38424 SPIN | *** | | FERRITE BEAD 2UH -AT- |
| F84 4322209046 FERRITE BEAD 2UH -AT-
F86 4322209046 FERRITE BEAD 2UH -AT-
F87 4322209048 FERRITE BEAD 2UH -AT-
F8P1 4322309006 FERRITE BEAD 3UH -AT-
IGZ 4158384200 IC.UC38424 SPIN | | 4322209046 | FERRITE BEAD 2UH -AT- |
| FB4 4322209046 FERRITE BEAD 2UH -AT-
FB6 4322209046 FERRITE BEAD 2UH -AT-
FB7 4322209048 FERRITE BEAD 2UH -AT-
FBP1 4322309006 FERRITE BEAD 3UH -AT-
IGZ 4158384200 IC.UC38424 8PIM | FB3 | 4322209046 | FERRITE BEAD 2UH -AT- |
| F86 4322299046 FERRITE BEAD 2UH -AT-
FB7 4322299048 FERRITE BEAD 2UH -AT-
FBP1 4322309006 FERRITE BEAD 3UH -AT-
IGZ 4158384200 IC.UC38424 8PIM | F84 | 4322209046 | 1 |
| FB7 4322209048 FERRITE BEAD 2UH - AT-
FBP1 4322309006 FERRITE BEAD 3UH - AT-
IGZ 4158384209 IG. UC38424 8PIM | F86 | 4322209046 | |
| FBP1 4322309006 FERRITE BEAD 3UH -AT-
IG2 4158384200 IG.UC38424 8PIM | FB7 | 4322209048 | |
| IG2 4159384200 IG LIC3842A BPIM | FBP1 | 4322309006 | |
| | IC2 | Traceries | |
| The state of the s | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The second secon | |
| | المنتا <u>ب من و من</u> | CONTRACTOR OF THE PARTY OF THE | A STATE OF THE PARTY OF THE PAR |

| REE | PARTNO | DESCRIPTION |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 103.4 | 7.415939300X | ICTM 393 14PIN |
| IC302 | 4159358000 | ICLMT359N 8PIN |
| 103030 | ATERREGOOD | IC LMT358N 8PIN |
| | | |
| | | ICTDA9102C 20PIN |
| (C305) | The second second second second second | IC TDA4950 8PIN |
| 10308 | | FIC TDA6444N 16PIN |
| C307 | 1 41598444NO | IC TDAB444N 16PIN |
| 904 | 415943100A | ICTLAST REGULATOR TO 92 HT. |
| IC5 | 4159781201 | OC MC7812 3PIN/Service Annual Control |
| 108 | 4159780601 | IC 7805 REQUEATOR 3PIN |
| ICP2 | 4169555000 | ICINESSS APIN |
| ICP3 | 4159431004 | ICTLAST REGULATOR TO 92 AT |
| K1 | 4420812006 | RELAY OMI-SS-212L |
| Lt | 4321120006 | COIL PEAKING 12UH -AT- |
| L301 | 4325339003 | |
| L302 | 4323529003 | COIL CHOKE 3.3MH -SF- |
| L303 | - Chia | COIL CHOKE 5.2UH -SF- |
| | 708S2014T1 | COIL LINEARITY SF |
| L304 | 4325141003 | COIL CHOKE 146UH -SF- |
| L305 | 4323900103 | COIL CHOKE 90UH -SF- |
| L306 | 4321399006 | COIL PEAKING 3.9UH -AT- |
| L307 | 4321399008 | COIL PEAKING 3.9UH -AT- |
| L308 | 4322309008 | FERRITE BEAD 3UH -AT- |
| L309 | 4322209046 | FERRITE BEAD 2UH -AT- |
| L310 | 4322209046 | FERRITE BEAD 2UH -AT- |
| L311 | 432110000B | COIL PEAKING 10UH -AT- |
| L401 | 4321100008 | COIL PEAKING 10UH -AT- |
| LP1 | 4320205003 | COIL CHOKE 2MH -SF- |
| LP2 | 4322209046 | FERRITE BEAD 2UH -AT- |
| LP3 | 4322209046 | FERRITE BEAD 2UH -AT- |
| LP4 | 4322209046 | FERRITE BEAD 2UH -AT- |
| P1 | 4490400207 | |
| P2 | 4493000160 | CONN. 4P WAFER ROUND PIN |
| P5 | 4490200130 | CONN. 30P SIMM SOCKETS AL03000 |
| P7 | - | CONN. 2P WAFER 2.5MM |
| | 4490401104 | CONN. 4P MH11041-H1 |
| PH1 | | POTO COUPLER X'STER 4N35 W=10 |
| PTCR1 | Of A.P. S. A. A. C. Company I. M. C. C. C. C. C. C. | PTCR DGC 2R14M |
| | | TRS 250945P TO-92 -RT- |
| SQ10 | 4170306670 | TRS 2SD687CTO 92M RT |
| OH to | 4 N1030657G | TRS/250667C-TO-92M-FIT- |
| 02/2553 | 4114510080 | TRS:SCR MCR100-8 TO-92-RT |
| Q3 | 4114501006 | TRS: MCR100-6 TO-02-RT2 |
| 0301 | マンピート さいさいしょう マンフェッリン | TRS-25C5048 TO 3P |
| 0302 | 4105908400 | TRS/IRF840 TO 220 |
| Q304 | 4103200122 | TRS. TIR 122 |
| Q305 | white the state of the state of | TRS 258649A TO 126 |
| C307 | Bull of Paris Control of the | TRS-25C945P TO-92 RTs |
| G308 | M10010861014 | THS/258861 |
| Q309 | 4115612030 | |
| C310 | A CONTRACTOR OF THE PARTY OF | TRS. RN1203 -RT |
| | | TRS. MOSFET IRF620 TO 220 |
| 20311 | | TRS: MOSFET 28K1101 SC-67 |
| 2Q312 | The second secon | TRS, 2SA739 TO 92M - RT |
| | A STATE OF THE PARTY OF THE PAR | TRS: 2N3904 TO-92 -RT- |
| Q348 | The state of the s | TAS RNIGOT RT |
| Q347 | | THS 2SC945P TO 92 - RT |
| O348 | | TRS. ANT203 AT |
| 0350 | 4116610010 | TRS: RN1001 -RT |
| Q352 | 4100226880 | TRS/2SC2688 TO-126 |
| Q353 | the second second second second second | TRS-2SD669ATO-126 |
| Q354 | | TRS: 2588470:TO-92M -RT |
| 0355 | THE RESIDENCE AND NOTION OF | TAS-2SD1264A |
| | | |

Section 9. PCB Component List

| 9.1. | Explanation of Parts Listing9-1 |
|------|---------------------------------|
| 9.2. | Main Board |
| 9.3. | Neck Board |
| 9.4. | Logic Board9-8 |
| 9.5. | Control Board |

9.1. Explanation of Parts Listing

This section contains a complete listing of the components used on the printed circuit boards contained in the system. For a listing of the mechanical parts, please refer to Section 8., Mechanical Parts.

The list of parts in this section is separated by PCB, and the order of the listing is based on the location reference (REF.) printed on the circuit board and shown in the schematics. Components without a reference location are listed at the beginning of each table in order of the part number, and the location reference of the part with which they are connected is given in the description.

For example:

| 2003097301 | HEAT SINK FOR Q1 |
|------------|------------------|
| | |

shows Part No. 2003097301, which is connected or related to the components with a location reference of Q1.

Shaded items indicate comments that are critical for safety or arc of proprietary design and must be replaced with parts of the exact same specification or ordered directly from the manufacturer.

For example:

| Q1 | 4101515070 THS. MOSFET 25K150Z TO-228 |
|----|---------------------------------------|
| | |

Indicates that the TRS. MOSFET, Part No. 4101515070 located at reference Q1, should onlybe replaced with the exact same part ordered from the manufacturer.

9.2. Main Board

| | 2001097F1
200309730
200419163
2005097F1
200909632
204629400
305200030
3652TCBS
414110860
4923000
529007000
5322237601
5541025095 | 1 HEAT SINK FOR O6 O HEAT SINK HOLDER FOR Q6 O *COVER FBT FOR T302 D HEAT SINK FOR IC202 D HEAT SINK F FOR Q30B O EYELET FOR FBT X3 O SPACER SUPPORT (TCBS-10) FOR FBT COVER O **PC.B. MAIN** CUR-FUSE SMM FOR FT O TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-55 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2001097F1 200309730 200419163 2005097F1 200909632 2046294B0 305200030 3652TCBS 414110850 4592007000 5322235704 5541025095 | 0 #U BRACKET † HEAT SINK FOR Q6 0 HEAT SINK HOLDER FOR Q6 0 *COVER FBT FOR T302 D HEAT SINK F FOR Q30B 0 EYELET FOR FBT X3 SPACER SUPPORT (TCBS-10) FOR FBT COVER 2 #P.C.B. MAIN: CUP. FUSE SMM FOR FT TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AVG22 ORG 750-5-5 FOR FBT CABLE TIE 2.5X90 FOR G2,04 FOCUS WIRE |
| | 200309730
200419163
2005097F1
200909632
204629400
305200030
3652TCBS
414110850
459230000
5290007000
5322235704
5341025095 | 1 HEAT SINK FOR O6 O HEAT SINK HOLDER FOR Q6 O *COVER FBT FOR T302 D HEAT SINK FOR IC202 D HEAT SINK F FOR Q30B O EYELET FOR FBT X3 O SPACER SUPPORT (TCBS-10) FOR FBT COVER O **PC.B. MAIN** CUR-FUSE SMM FOR FT O TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-55 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
| | 200419163
2005097F1
200909632
204629400
305200030
3652TCBS
414110850
45923000
5290007000
5322235704
5541025095 | O HEAT SINK HOLDER FOR Q6 O *COVER FBT FOR T302 D HEAT SINK FOR IC202 D HEAT SINK F FOR Q308 D EYELET FOR FBT X3 SPACER SUPPORT (TCBS-10) FOR FBT COVER SPECIAL MAIN CUR-FUSE SMM FOR FT TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AVG22 ORG 750-5-5 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
| | 2005097F1
200909632
2046294B0
305200030
3652TCBS
414110850
459230000
5290007000
5322235704
5541025095 | O *COVER FBT FOR T302 D HEAT SINK FOR IC202 D HEAT SINK F FOR Q30B D EYELET FOR FBT X3 SPACER SUPPORT (TCBS-10) FOR FBT COVER SPECIAL MAIN CUP-FUSE SMM FOR FT TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AVG22 ORG 750-5-5 FOR FB CABLE TIE 2.5X90 FOR G2,04,FOCUS WIRE |
| | 200909632
204629400
3052000300
3652TCBS
414110850
459230000
5290007000
5322235704
5341025095 | D HEAT SINK FOR IC202 D HEAT SINK F FOR Q30B EYELET FOR FBT X3 O SPACER SUPPORT (TCBS-10) FOR FBT COVER #P.C.B. MAIN CUP. FUSE SMM FOR FT TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 7508-5 FOR FB CABLE TIE 2.5X90 FOR G2,G4,FOCUS WIRE |
| | 204629400
3052000300
3652TCBS
4141108500
459230000
5290007000
5322235704
5322237601
5541025095 | D HEAT SINK F FOR Q30B D EYELET FOR FBT X3 D EYELET FOR FBT X3 D SPACER SUPPORT (TCBS-10) FOR FBT COVER D CUP. FUSE SMM FOR ET D TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750S-5 FOR FB CABLE TIE 2.5X90 FOR G2,G4,FOCUS WIRE |
| | 305200030
3652TCBS
414110850
45923000
5290007000
5322235704
5322237601
5541025095 | D EYELET FOR FBT X3 O SPACER SUPPORT (TCBS-10) FOR FBT COVER #P.C.B. MAIN CUP. FUSE SMM FOR FT TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-5-5 FOR FB CABLE TIE 2.5X90 FOR G2,G4,FOCUS WIRE |
| | 3652TCBS
414110850
459230000
5290007000
5322235704
5322237601
5541025095 | SPACER SUPPORT (TCBS-10) FOR FBT COVER #P.C.B. MAIN: CUP.FUSE SMM FOR ET TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-5 FOR FB CABLE TIE 2.5X90 FOR G2,G4,FOCUS WIRE |
| | 414110850
459230000
5290007000
5322235704
5322237601
5541025095 | FBT COVER #P.C.B. MAIN: CUP.FUSE SMM FOR ET TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-5 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
| | 5290007000
5322235704
5322237601
5541025095 | CUP FUSE SMM FOR ET TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-5-5 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
| | 5290007000
5322235704
5322237601
5541025095 | TUBE-SHRINK ID=7+ FOR C20 WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AVVG22 ORG 750-5-5 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
| | 5322235704
5322237601
5541025095 | WIRE 1007 #22 ORG 560MM-TERM WRE 1007 AWG22 ORG 750-5-5 FOR FB CABLE TIE 2.5X90 FOR G2.G4.FOCUS WIRE |
| | 5322237601
5541025095 | WRE 1007 AWG22 ORG 750-5-5 FOR FB
CABLE TIE 2.5X90 FOR
G2.G4.FOCUS WIRE |
| | 5541025095 | CABLE TIE 2.5X90 FOR G2,G4,FOCUS WIRE |
| 3 | | G2,G4,FOCUS WIRE |
| | 5560020040 | |
| | | FERRITE CORE (RH 17.5X13.5X9
FOR G2.G4,FOCUS WIRE |
| Marie Committee of the | 5580080003 | |
| | 7050301700 | |
| | 8127113006 | SCREW PAN(+)/HD CAP TAPPING
M3 FOR CHAS BEAR & U BRACKET
X2,CHAS BEAR & MAIN PCB |
| | 8128142608 | |
| | 8283113015 | SCREW BIND(+) M3X15 MACH
W/SPR FOR Q6 |
| | 8504113008 | SCREW BID(+) M3X6 MACH W/DISK
FOR Q308 |
| | 8504113010 | SCREW BIND(+) M3X10 MACH W/DIS
FOR D301,303,332,Q301,311,355 |
| | 8504113010 | SCREW BIND(+) M3X10 MACH
W/DIS FOR IC202 |
| | 9011094230 | LABEL WARNING 28KV |
| | C488100015 | CONN. 10P & WIRE ASSY FOR P3 & P4 |
| Paris | 4180600608 | DIODE HBV-806 6A/800V |
| C10 | 5074104506 | CAP-MEF 0.1UFJ 630V -SF- |
| C12 | 5156471T25 | CAP-EC6 470UFM 25V -RT- |
| C13 | 5116102111 | CAP-MC 0.001UFK 100V -RT- |
| C14 | 5092103615 | CAP-PP 01UFG 100V P:10mm -SF- |
| C15 | 5156101T25 | CAP-EC6 100UFM 25V -RT- |
| C16 | 5116472111 | |
| C17 | 5134104452 | CAP-MC 0.0047UFK 100V -RT-
CAP-SCF 0.1UFZ 50V -RT- |
| C18 | 5134104452 | |
| C19 | 5128331552 | CAP-SCF 0.1UFZ 50V -RT- |
| C20 | 5101471193 | CAP-CCSL 330PFJ 50V -RT- |
| C202 | 5156221T35 | CAR ECC 220 VEH 2014 |
| C203 | 5101102152 | CAP-EC6 220UFM 36V -RT- |
| C206 | 5113224111 | CAP-CCB 1000PFK 50V -RT- |
| | | CAP-MC 0.22UFK 100V -SF- |
| | 5116104150 | CAP-MC 0.1UFK 50V -RT. |
| | 5118103111 | CAP-MC 0.01UFK 100V -RT- |
| | 5156100S02 | CAP-EC6 10UFM 160V -SF- |
| | 5101101132 | CAP-CCB 100PFK 1KV -RT- |
| | 515X151S02 | CAP-ECX 150UFM 160V -SF- |
| | 515X471S25 | CAP-ECX 470UFM 25V -SF- |
| | 515X471S25 | CAP-ECX 470UFM 25V -SF- |
| | | CAP-ECX 100UFM 100V -SF- |
| | 515F47†\$25 | CAP-ECF 470UFM 25V -SF- |
| | 515X102S25 | CAP-ECX 1000UFM 25V -SF- |
| 28 5 | 5074104101 | CAP-MEF 0.1UFK 100V -SF- |

Safety Standards and Approvals

- This monitor complies with DHHS Rules 21 CFR Subchapter J Applicable at date of manufacture.
- Certified to comply with the limits for a Class B computing device pursuant to part 15 of FCC rules
- Please refer to instructions included FCC notice in the user's manual if this equipment is suspected of causing interference to radio reception.

Important Safety Notice

This equipment contains special components which are important for safety. These critical parts should only be replaced with the parts specified by the manufacturer in order to prevent X-radiation, shock, fire or other hazards. Do not modify the original design.

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Preface Before You Start

General Safety Precautions

- Use an isolation transformer in the power line and AC supply to troubleshoot.
- When servicing, observe the original lead dress, especially in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged.
- 3. Before turning the display on, measure the resistance between B+ line and chassis ground. Connect the negative side of an ohmmeter to the B+ lines and the positive side to chassis ground. Each line should have more resistance than the following specifications:

| B+ Line | Minimum Resistance |
|---------|--------------------|
| +200V | 119.58KΩ |
| +75V | 8.77ΚΩ |
| +15.0V | 2.11ΚΩ |
| +12.0V | 0.2ΚΩ |
| -15V | 20.04ΚΩ |
| +6.3V | 4.69Ω |
| +5.0V | 1.29ΚΩ |

- 4. Potentials, as high as 26kV are present when this display is in operation. Operation of the display without the rear cover involves the danger of a shock hazard from the display power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the display chassis before handling the tube.
- After servicing, be sure to check the items listed in the Safety Checkout, below before returning the serviced unit to the customer.

Safety Checkout

The following checks MUST be made after correcting the original service problem and before the unit is returned to the customer.

- Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the inter board wiring to ensure that no wires are pinched or coated with high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps and mounting hardware have been replaced. Make absolutely sure you have replaced all the insulators.
- Look for any unauthorized replacement parts, particularly transistors, that may have been installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- After making any repair, check the B+ and HV to see whether they are at the values specified. Make sure your instruments are accurate; if your HV meter always shows a low HV, check the meter to ensure it is not malfunctioning.
- Carry out the leakage current checks as detailed below overleaf.

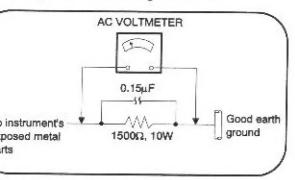
eakage Current Cold Check

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- Turn on the display power switch.
- Use an ohmmeter to measure the resistance value between the jumpered AC plug and each exposed metallic cabinet part on the display, such as screwheads, terminals, control shafts, etc. When an exposed metallic part has a return path to the chassis, the reading should be between 240k and 5.2M. When exposed metal does not have a return path to the chassis, the reading must be 0,

eakage Current Hot Check

Plug the AC cord into the AC outlet. DO NOT use an isolation transformer for this check.

Connect a 1.5k, 10 watt resistor in parallel with a 0.15F capacitor between each exposed metallic part on the set and a good earth ground (see How to Find a Good Earth, below) as shown in the diagram below.



xample of Leakage Current Hot-Check Circuit

Use an AC voltmeter with 1000 ohms/volt or more sensitivity to measure the potential across the resistor.

Check each exposed metallic part, and measure the voltage at each point.

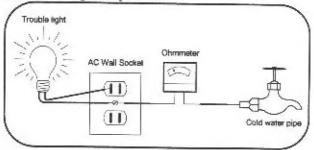
Reverse the polarity of the AC plug in the AC outlet and repeat the above measurements.

The potential at any point should not exceed 0.75 volt RMS. A leakage current tester (Simpson Model 229, RCA WT-540A or equivalent) may be used to make the hot checks.

tage current must not exceed 0.5 milliamp. If a measuret is outside of the specified limit, there is a possibility of ock hazard and the monitor should be repaired and reked before it is returned to the customer.

How to Find A Good Earth

A cold water pipe is a guaranteed earth ground; the cover plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold water pipe with an ohmmeter. The reading should be zero (0) ohms. If a cold water pipe is not accessible, connect a 60 - 100 watt trouble light (not a neon lamp) between the hot side of an AC power receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line. The lamp should light at normal brilliance if the screw is at ground potential.



How to Check for Earth Ground

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